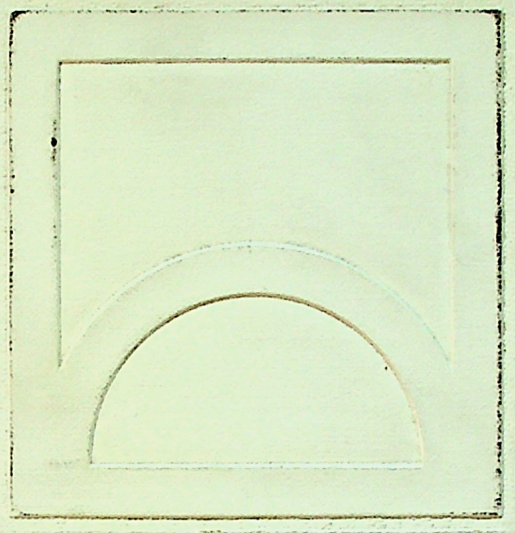

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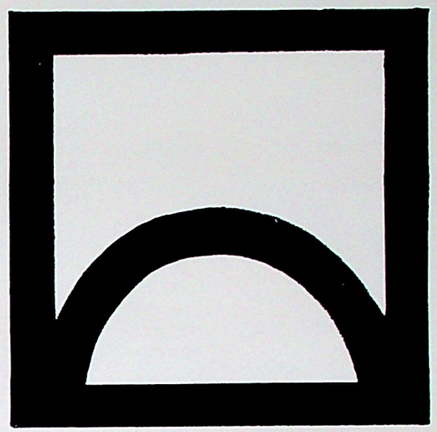

CABLE '61

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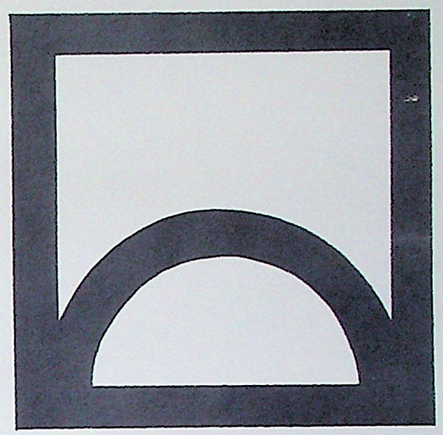

Dedication

Traditionally, the purpose of a yearbook dedication has been to honor the past services of a person or persons associated with the school, and express the esteem in which they are held by the student body, faculty, and administration. The staff of The 1960-61 Cable feels, however, in the wake of the school's Centennial Observance, that any such message must look forward to the future of The Cooper Union at the same time it pays its respects to the school's history.

The Cooper Union's immediate future rests in the hands of its new President, Dr. Richard F. Humphreys. Peter Cooper would no doubt have agreed that this choice of a distinguished man of science to succeed the eminent humanitarian, Dr. Burdell, was a proper one. Dr. Humphrey's background, as intensive as it is broad, will greatly facilitate his administration of Cooper's curriculum.

A native of Greenville, Ohio, Dr. Humphreys received his B.A. from DePauw University in 1933. He was awarded his Master's in 1936 from Syracuse University, and his Doctorate (Physics) from Yale in 1939. His next ten years were spent as an instructor in Physics at Syracuse and Yale, and he resigned the post of Assistant Professor at the latter school in 1948 to become Assistant Chairman of the Armour Research Foundation. Dr. Humphreys was elected Vice President for technical development in 1956 after serving that organization since 1951 as Director of Technical Research. His achievements in the fields of spectroscopy, isotope separation, and atomic physics, particularly in the nuclear reactor and cyclotron areas have gained him wide acclaim in scientific circles.

The physical plant which Dr. Humphreys inherits from his predecessor is the culmination of a hundred years of progressive growth at The Cooper Union. The transferral of the Engineering School from the Foundation Building to the gleaming structure across Astor Place now gives Cooper facilities "equal to the best" in technical education.

If the New Building is symbolic of the future, however, it does not mean that the Art School, housed in the century-old Foundation Building, is tied down to the past. Rather, it also looks forward with eager anticipation to the next hundred years, and the future of The Cooper Union has never seemed brighter. Students, faculty, and alumni rejoice in their Alma Mater's good fortune, and wish her continued success under the new administration.

The 1960-61 Cable, therefore, is dedicated to the future to the students of the next hundred years who will study here in the traditions of the first century, continuing to enjoy the fruits of education which the foresight of the school's founder made possible.

Jack R. Alford Ralph Alliegro Milton Alpern Leo Amino Henry G. Ansell Arnold A. Arbeit Anthony E. Armenakas Sholom Arzt Louis Axelbank Will Barnet Bertram L. Bassuk Hannes Beckmann Robert D. Benton Mary F. Blade Peter J. Blake Varujan Y. Boghosian John L. Bové Richard S. Bowman Paul Brach Joseph Breitenbach Samuel M. Brody Peter W. Bruder Leroy H. Buckingham Edwin S. Burdell Charles Cajori Frank M. Caldiero Victor Candell Anthony N. Candido Ralph de S. Childs Harvey J. Coopersmith Robert W. Cumberland Benjamin F. Cunningham Stefano Cusumano Joseph A. D'Amelio Ismar David Lewis Davis Joseph De Chiara Rudolph de Harak Paul V. DeLuca Sidney Delevante Raymond B. Dowden James N. Eastham Stephen M. Edelglass Walton D. Ellison Weller B. Embler Sidney Epstein Sol Fanshel Mary Anne Farrell George Feinstein Edward F. Ferrand Jr. Harvey I. Fersten Jay Fleishman Samuel Gelfman Howard T. Glasser Henry Gorlin Alexander Graham Fred H. Graves Robert H. Gray Edward M. Griswold Kingman N. Grover Phillip Grushkin S. Frederic Guggenheim Robert Gwathmey Robert Haas David Hack Philip A. Harding Tyler Hicks John Hoernle J. Clinton Hollinger Henry B. Hope John Hovannes Robert G. Hundley John C. Kacere Selig Kainer Joseph Kalb Theodore Kalechstein Israel Kalish Gerhard M. Kallmann Morris Kantor Leo S. Kaplan Jason Kirby Victor F. Klein Ralph L. Knapp Edward F. Knowles Theodore Kole Herbert R. Kornblum David Kosakoff K. George Kratina Walter S. Kut Daniel Laitin Melvin Lawrence Charles H. Lehmann Edwin A. Leventhal Herbert Liebeskind Jordon L. Linfield Kenneth E. Lofgren Oswaldo Lourenso Milton J. Lowenstein Arsete J. Lucchesi David Lund Harry Mahler Jerome Manheim Leo Manso Nicholas Marsicano James C. McCrea Arthur F. Menton Walter J. Middleton Frederic H. Miller Seong Moy Philip J. Mullan Theodore Nicholas Saul A. Nuccitelli Philip Nudd James N. O'Gorman Milton Ohring David H. Oxman Gerald A. Paul Charles F. Peck Jr. J. Merriam Peterson George Picken Joseph F. Pizzirusso Emil John Poggi Gerald Post Robert E. Puttre Arthur H. Radasch Carl Ramirez Herbert F. Roemmele James Rosati Walter Rosenblum Stanley A. Rosenthal George Salter Robert G. Sarubbi Norman Schaumberger Karl Schrag Alan Schwartzman James Secrest Charles Seide William C. Shapiro Esmond Shaw Clarence S. Sherman Jesse B. Sherman Reginald S. Smith George C. Sponton Grace Spruch Paul Standard Ernest W. Starr Milton Stecher Richard G. Stein Robert L. Steinberger Henry W. Stone Frank H. Tallman Louis Tavelli Marcel Tenenbaum Wallace I. Thurston Norman L. Towle Norman M. Trieff Dana P. Vaughan William A. Vopat Taina Waisman Felix A. Wallace Walter S. Watson Alan Wayne Eric Weissman Joseph N. Whitten Roger Willcox Joseph Winter Chester J. Wisniewski Henry Wolf Hugh C. Wolfe Matthew Wysocki A. Aaron Yalow Murray Yanowitch Lee W. Yosha Matthew E. Zaret Morris Zeitlin Paul Zucker

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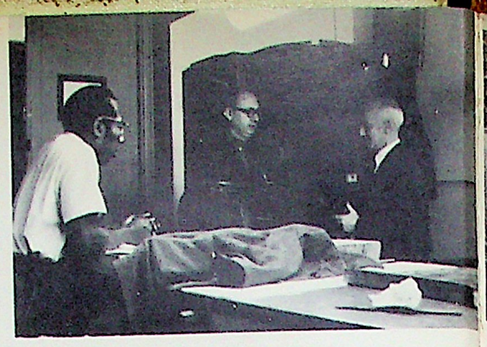
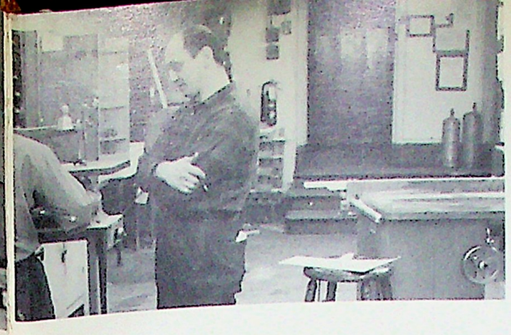
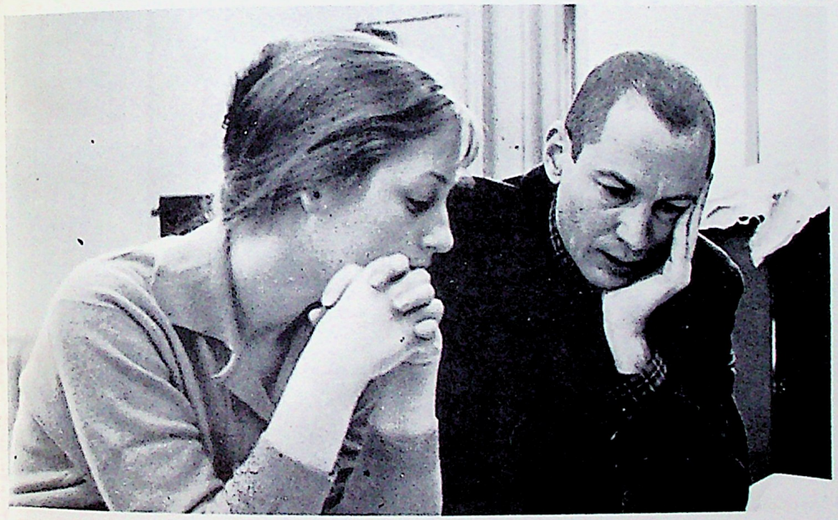
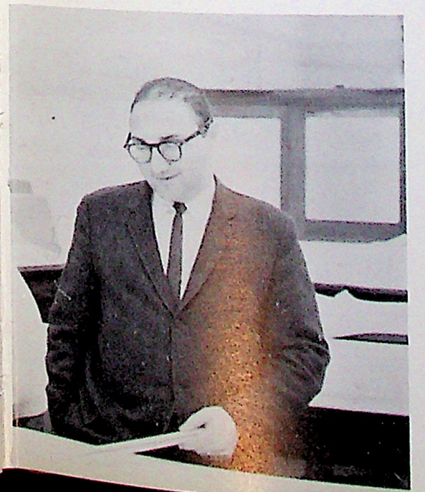
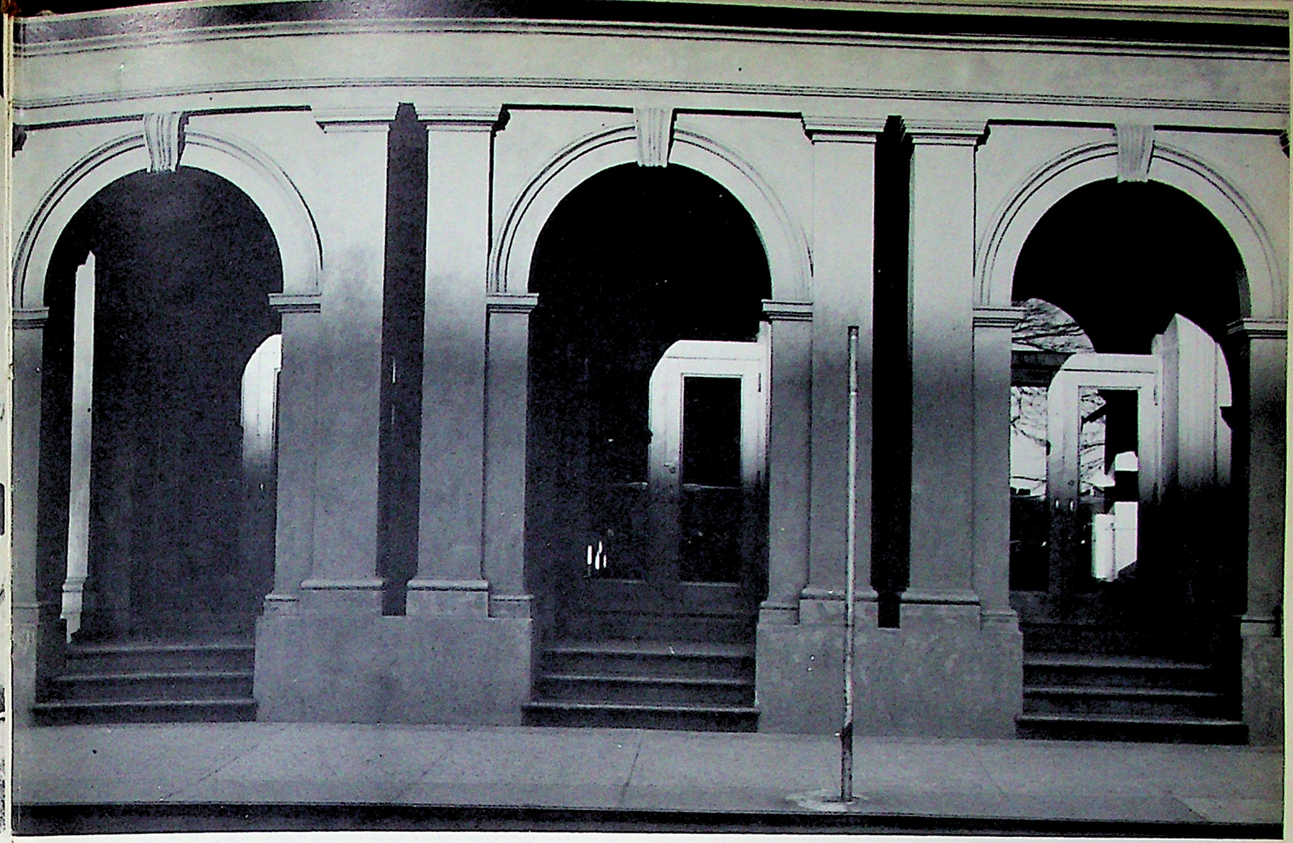
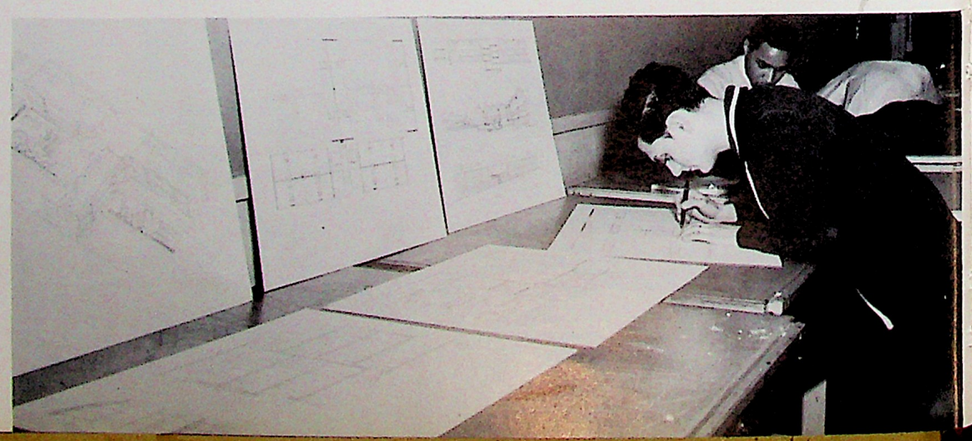







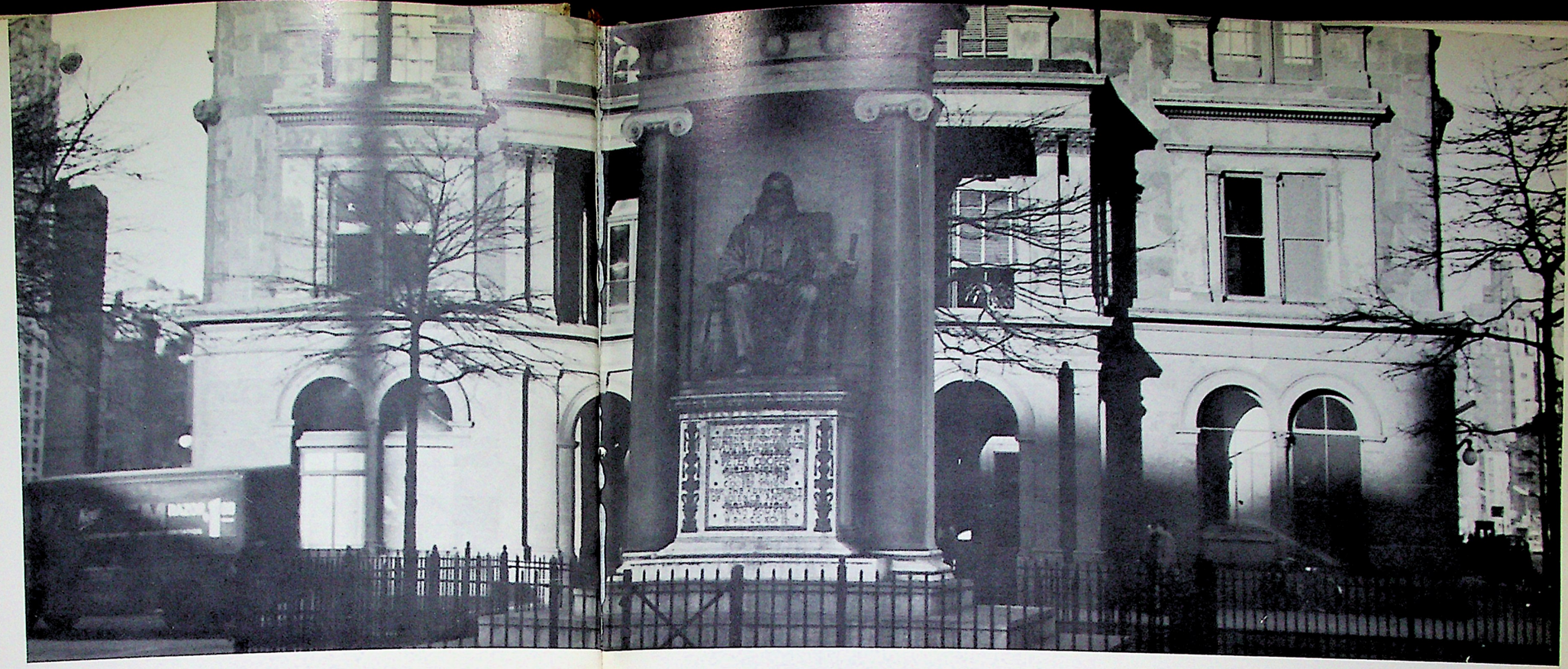




over, 3 years

aren't the slums really i mean but so aesthetic hanging wash and like that great i mean like really great looking fire escape pattern and dirty no less great sidewalk cracks the air with birdseed smelling the spring early among pigeons and pigeon man like really great Sagamore angels smelling i wish at least like seeds of great artists and architects problems too spread on a drawing and or draughting board for close if not meticulous observation show signs of old age and being worn at the edges like your favorite well . . . space and form distinguished from shape forming space and other magic words sliding into various forms of shapes not deforming the 2D3 to be really flat space but then again Cezanne had a passion for but so Goya and Rembrandt for life had a passion that DeK and never in the same way Del had like ElGreco who knew like Nervi cement pre and otherwise cast into blacKline the act of which is color and accidents of which into mighty Oaks grow into nice little things going on in the ever real picture plain never the creative above all act is to be revered insacred cedar groves and 10th st. blues and greens our first year saw out of windows of Roman lower case and caps dancing to the in various versions remembered Romagnola to painting Green Camp rainy windy sunny grass and bug bedecked canvasses always somehow falling and flying like we now forever goodby.

Music to a day of thoughts
Of sunlight on brick and brownstone,
Of a world of books and streams.
Music that, if a wonder were beheld,
A glowing sunset over solid sunset,
Would evoke a strident song of bird.
Music molding emotions into a pattern
Of surges of wind, of sprays of fountains,
Of distances only the soul can feel.
Music that crashes calm and breaks serenity,
That pauses to let one know that
Breath is in the most pervading note.



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The
Big
Year of
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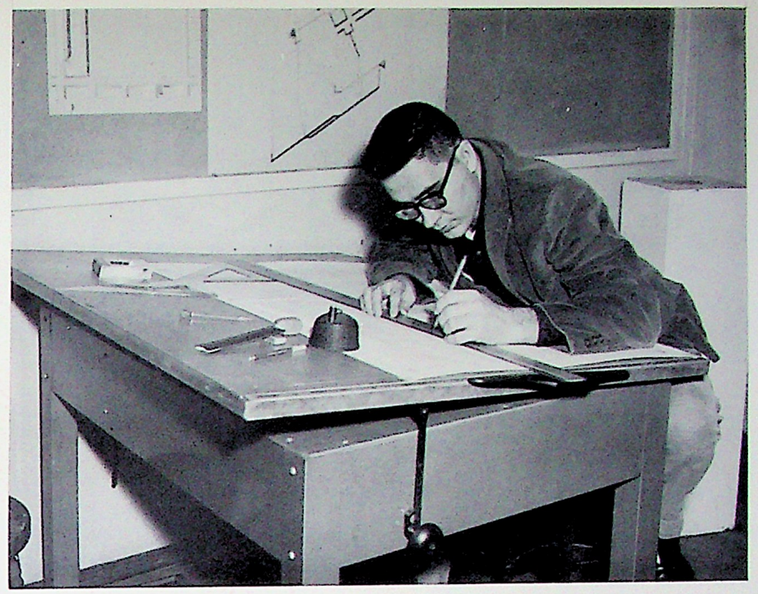
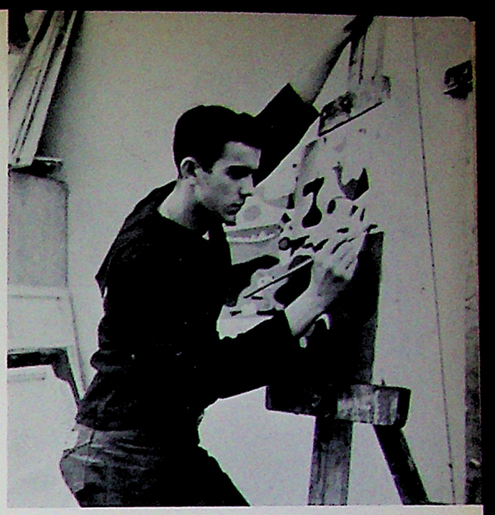
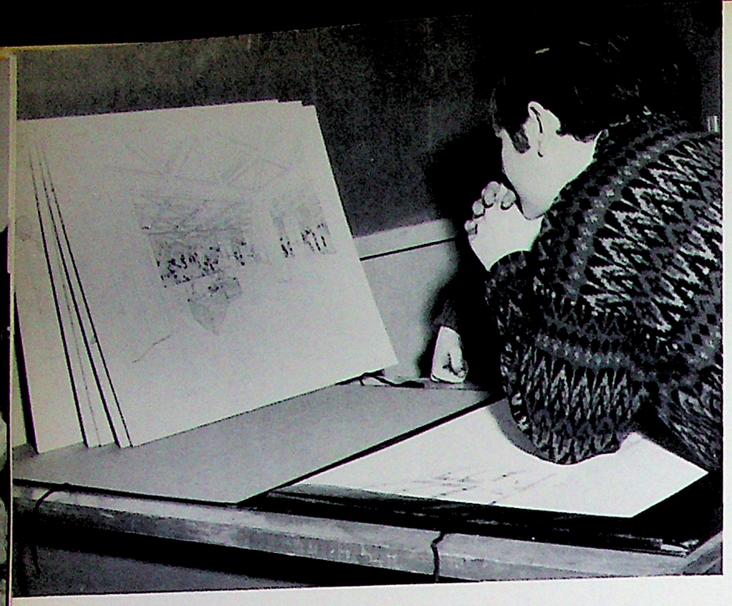
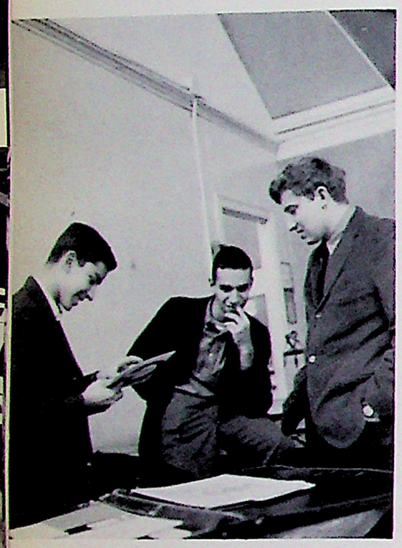
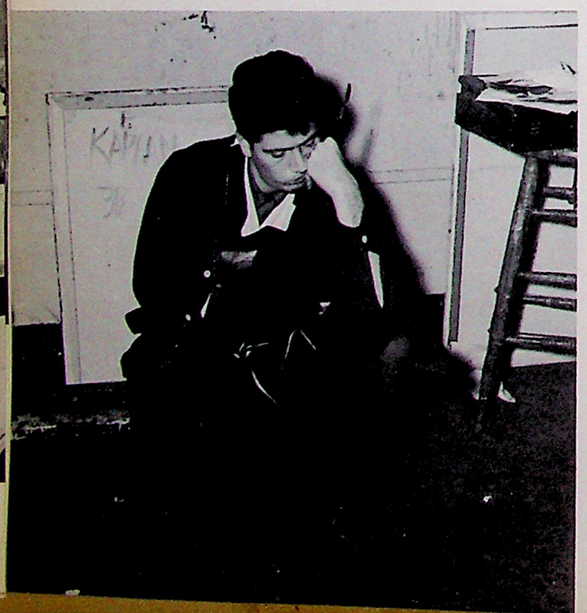


My courage
comes like
residue from
a sometimes
flower.
buds that burst with
something
sweet, dry
and dye
beneath
the rain
and yet
in
bleeding
tearless sands
in
barren
seedless
lands
that most
precious
flower
grows
and sows.





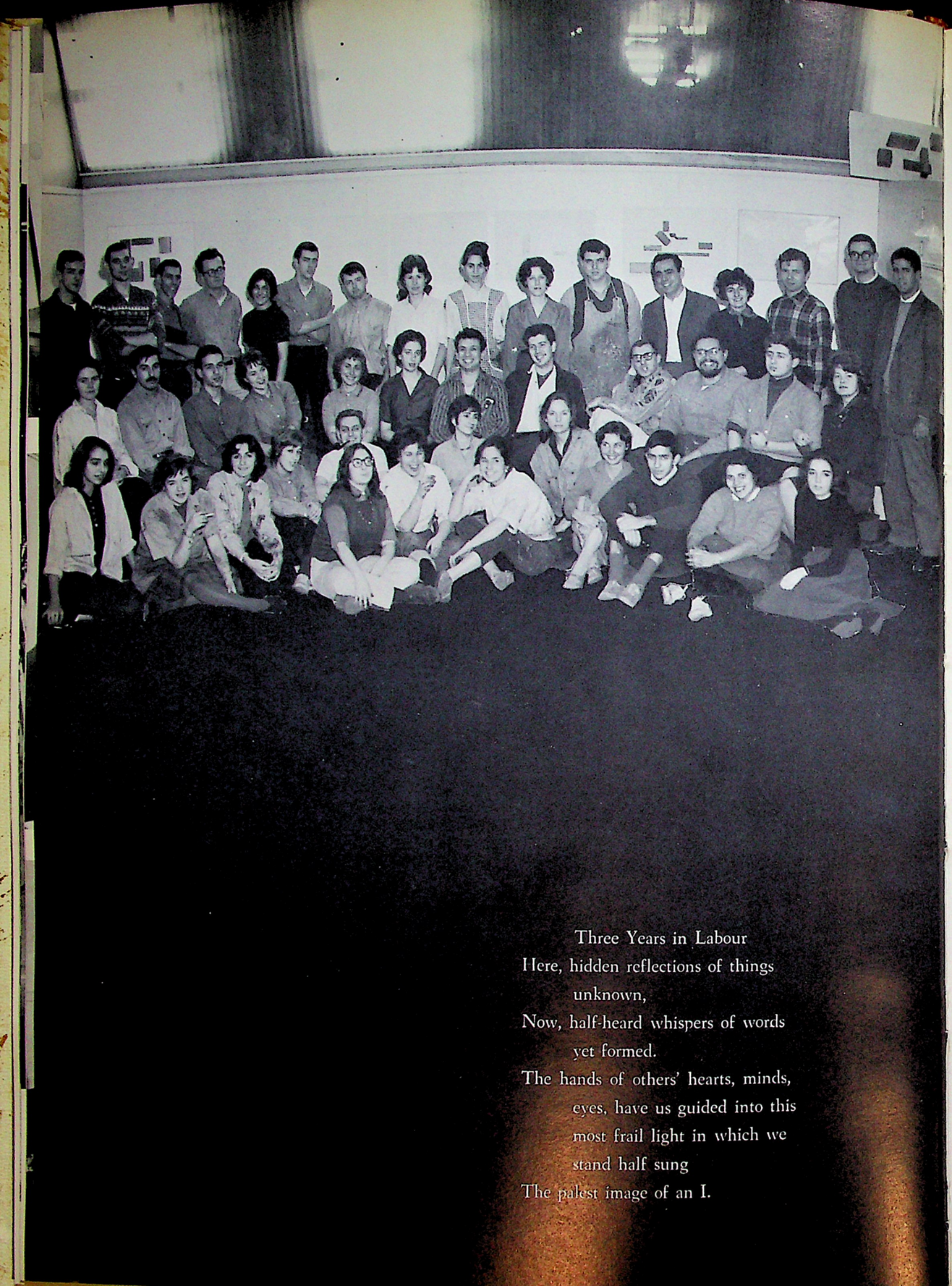




The world has changed much since Peter Cooper laid the cornerstone for the old edifice, and even an imaginative man like the founder would have been staggered by the ensuing advancement of science and art to which these walls have borne silent witness. They were already old when the name Picasso first appeared and his paintings and drawings altered the thoughts of generations of artists. Red flakes were peeling off their ancient sides when Frank Lloyd Wright passed away, leaving Cooper's architects, and the world's, grieving for their loss. Recently, the same walls which, for a century, had gazed upon Astor Place, saw their view of Ninth Street obstructed by a gleaming white building.

Ah — but how much more than the landmarks of history has this building seen. Unrecorded in any chronicles except for the memories of the persons who studied here, but there indelibly etched, is the everyday student life of the Cooper Union. Memories are common property of all graduates, irrespective of the years they attended and most are inseparably connected with the Foundation Building. The anguish of facing your first canvas despite the company of the instructor and other suffering artists, endured alone; the first warm day of spring, when students burst from the windowless classrooms to go to Coscia's, shoot the breeze, or sun themselves in lazy rows against the park fence; the breaks in the lounge, which nothing but Professor Dowden or Dean Vaughan could interrupt; the sixth floor studios with their groaning floor and pungent, all-permeating, odors of oil paint; and the endless hours of laboring over a CUAS or an architectural model — then forgetting the most important thing — it was due three weeks ago!

Students remain the same, and by and large, much goes on as before. But, in the book of Cooper's history a chapter — an era — has ended.



Three Years in Labour
Here, hidden reflections of things
unknown,
Now, half-heard whispers of words
yet formed.
The hands of others' hearts, minds,
eyes, have us guided into this
most frail light in which we
stand half sung
The palest image of an I.

Frederick V. Calabrese ARCH
428 Humboldt St., B'klyn 11,

Thomas Chin-Bow ARCH
40-21 172nd St., Flushing 58,

Henry Korman ARCH
1700 Harrison Ave., New York 53, N. Y.
Captain-Rifle Team
"Sir Bors and his squire rode along together, each holding a flower in his hand and without fear . . ."

Roy Shifrin ARCH
825 Gerard Ave., Bronx

Joseph A. Sutton, Jr. ARCH
159-44 Harlem Riv. Dr., NYC 39,

Peter Temmer ARCH
520 Madison Ave., New York 22, N. Y.
Fencing Team
"The approach is not by a physical progression, but by flashes of succeeding light, and these are not corporal but spiritual . . ."

Aviva Goldstein ARCH
318 W. 104th St., NYC 25

Richard C. Heydecker ARCH
284 E. 10th St., NYC 9,

Mary Ahern DES
35-24 94th St., Jackson Heights 72, N. Y.
Sec'y and Vice-Pres. of Newman Club

Hermine I. Baumel DES
2940 Ocean Ave,, B'klyn 35,

Benjamin Birnbaum DES
97-12 107th St., Ozone Pk., 16, N. Y.
Fencing Club, Glee Club, Drama Club, Sports Car Club

Anita Bohnenberger DES
30-09 81st St., Jackson Heights, N. Y.
Rifle Team
"There isn't enough darkness in the whole world to put out the light of one little candle."

Howard Burg DES
652 Crown St., B'klyn 13, N. Y.
Sec'y-Treas. Student Zionist Organization

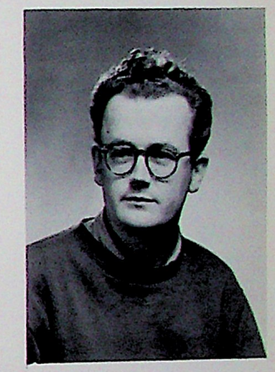
Al Burkhardt DES
5 Pauline Drive, South Farmingdale, N. Y.
"I say a good piece of lettering . . ."

Nancy Joan Colin DES
214 E. 54th St., B'klyn. 3

Judith Epstein DES
2001 Morris Ave., NYC 53

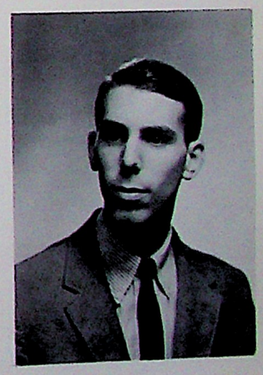
Hal Goluboff DES
708 Avenue "Y", Brooklyn, N. Y.
J. A. C., C-S-A, Art Student Council, Art Editor of Cable '60, House Chairman-Sigma Kappa Tau
"Nothing is impossible."

James Greene DES
324 E. 6th St., New York 3, N. Y.



Bill Hochhausen DES
1214 Boynton Ave., Bronx 72, N. Y.
Drama Club
"The will to a system is Death." — Nietzche

Peter J. Kaplan DES
15 West 81st St., B'klyn 20,

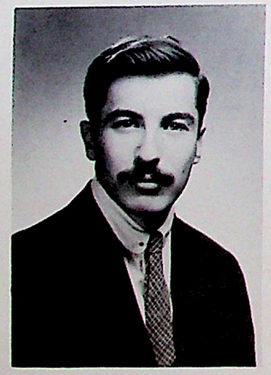


Rudolph William Klück DES
30-28 42 St., Astoria 3, N. Y.

Carole Kofod DES
2061 St. Raymond Ave., Bronx 62, N. Y.
Student Leader, Student Council, Varsity Rifle Team
". . . whence then comes wisdom?
And where is the place of understanding?"

Edrea Liebelson DES
133-15 226th St., Laurelton 13, N. Y.
Literary Club

Leanne Lipston DES
35 E. Hartsdale Ave., Hartsdale, N. Y.
Chairman of Literary Club
"It's spring and the goat-footed balloon man whistles far and wee." — e.e. cummings



Anne Liuzzo DES
1129 Fteley Ave., Bronx 72, N. Y.
Cheerleader, Student Leader
"I'd rather be wrong than be student leader."

Dan Lobel DES
141 Attorney St., N. Y. C.
Player of the Year '60-Bowling Team

John Morris DES
1 Decker Road, Ossining, N. Y.

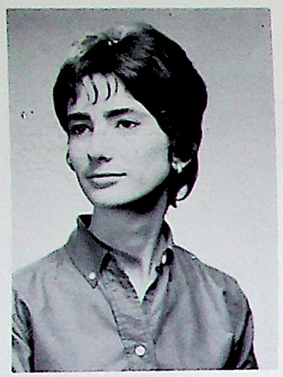
Esme M. Myers DES
19 Lakewood Ave., Cedar Grove, N. J.
Student Leader, Green Camp Advisory Comm., Literary Club, Protestant Club, Cable '61
"I prefer stories about squalor — and love."

Elizabeth Newman DES
1949 McGraw Ave., Bronx 62, N. Y.

Catherine A. Rich DES
177-27 226th St., Cambria Hts 11

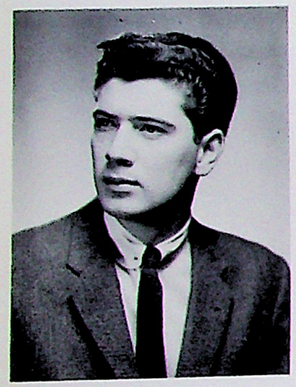
Judith Rosenberg DES
367 Lenox Road, B'klyn 26, N. Y.
Pioneer Staff, Ass't Manager-Fencing Team
Cable Staff

Marianne Schwartz DES
1240 Walton Ave., Bronx, N. Y.
Member of the Sailing Team



Mary Sims DES
275 West 11th St., N. Y. C.
Humanities Club: Literary & Comparative Religion Comm., Cable
"Progress was a labyrinth."
from "The Great Gatsby" — F. S. Fitzgerald

Amy Steinberg DES
62-60 108th St., Flushing, N. Y.



Richard A. Trask DES
31-11 24th Ave., Astoria 2, Queens, N. Y.
Newman Club

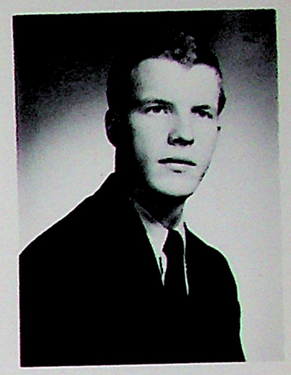
Thomas Van Steenbergh DES
117 Maplewood Ave., Bogota, N. J.
"Co. G., 102nd N.Y.V.V., 3rd Brig., 2nd Div., XII Corps, Army of the Potomac . . . sir."

Marjorie Venit DES
26-32 91st St., Jackson Hts. 69, N. Y.

Stephen Weinstein DES
904 Winthrop St., B'klyn 3, N. Y.

Annette Weiss DES
140 East 2nd St., B'klyn 18, N. Y.

Alfred Wonderlich DES
3006 N. E. Dunckley, Portland, Oregon

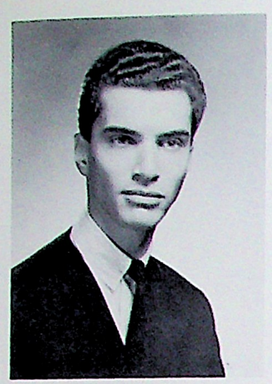


Charles Zigmund DES
1955 Sedgwick Ave., Bronx 53, N. Y.
Pioneer Staff, ASSC, JAC, CSA

Ellen Eisenberg DES
234 East 5th St., N. Y. 3, N. Y.
"Stiff on little stick legs,
the violet menagerie passes by."

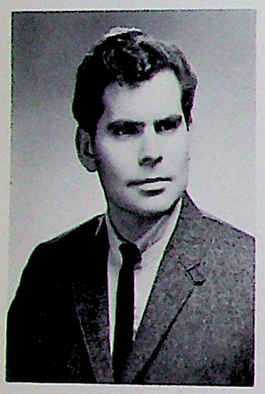
Susan C. Kamen DES
138 Wooster St., NYC 12,

Robert W. Schnepf DES
138 Wooster St., NYC 12,



Tina Amarena DES
326 E. 70th St., NYC 21,

Neil Appelbaum DES
367 E. 48th St., B'klyn 3, N. Y.
Student Leader, Dramatics Club
"... children in kindergarten trying to spell
God with the wrong blocks." — E. A. Robinson



Don M. Blauweiss DES
33-26 69th St., Jackson Hts. 77,

Sandra Chew DES
202 East 7th St., New York 9, N. Y.
Sailing Club, Swimming Club
"But what does it matter what reality is outside
myself, so long as it has helped me to live,
to feel that I am, and what I am." — Baudelaire

Thomas H. Chibbaro DES
227 Waverly Pl., New York 14, N. Y.

Juan Collyer DES
226 E. 26th St., New York, N. Y.
"Genius is 1 per cent inspiration
and 99 per cent perspiration." — Edison

Ralph Comella DES
7 Centre Market Place, N. Y. C.

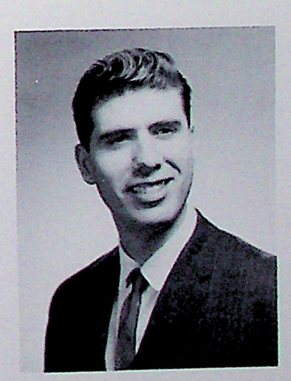
John P. Fornieri DES
2454 Belmont Ave., NYC 58,

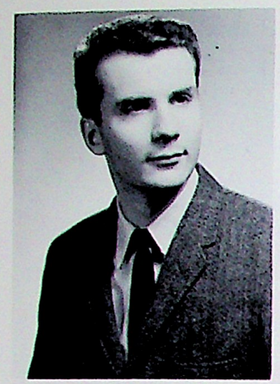
Julio Granda DES
34-15 Parsons Blvd., Flushing 54

Davie Lerner DES
29 Stuyvesant St., New York 3, N. Y.

Robert Levy DES
129 Amboy St., B'klyn 12,

Edwin M. Owre DES
3821 52nd St., Sunnyside 4,





Benedict Pensato DES
296 Suydam St., B'klyn 37, N. Y.
"The whole is greater than the part and the part is less than the whole." — Plato

Fred Samperi DES
41-40 Parsons Blvd., Flushing, N. Y.
Student Leader

Robert J. Schiffhauer DES
227 Front St., NYC 38,

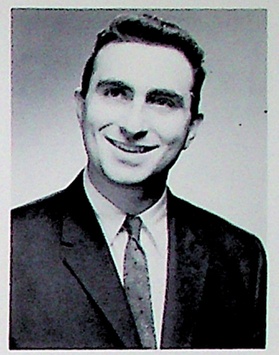
Roslyn Seelig DES
435 W. 24th St., NYC 11,

Norma Squires DES
3660 Waldo Ave., Bronx 63, N. Y.

Joyce Sudborough DES
219½ E. 5th St., New York 3, N. Y.

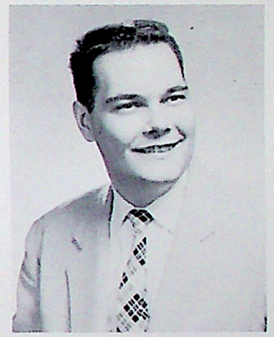
Seymour Waldman DES
490 Williams Ave., B'klyn 7, N. Y.

Robert Young DES
26 Henry Ave., Palisade Park, N. J.



John C. Boehringer Jr. ARCH
134 Sherman Ave., Jersey City, N.J.

John Harris ARCH
375 Pulaski St., B'klyn



Irwin M. Hoffman ARCH
6095 Putnam Ave., Ridgewood 27, N.Y

Joseph F. Pesce ARCH
720 Bloomfield St., Hoboken, N. J.

Eugene Steuben ARCH
9439 115th St., Richmond Hill 19

Francisco T. d'Aquino ARCH
85-14 Broadway, Elmhurst 73, N.Y.

Richard Ludwig Fuerst ARCH
2338 125 th St., College Point, N.Y.

John Hanson ARCH
36-11 Henry Hudson Pkwy., NYC 67

Gerda B.L. Turner ARCH
19 Crest Drive, East Northport, N.Y.

Anthony Aviles DES
512 West 135th St., New York 31, N. Y.
Freshman Basketball

Salvatore Barone DES
56 E. 4th St., NYC 3,

Charles Clark DES
1293 Prospect Ave., B'klyn 18, N. Y.

Eleanor E. Dalton DES
90 Bedford St., NYC 14

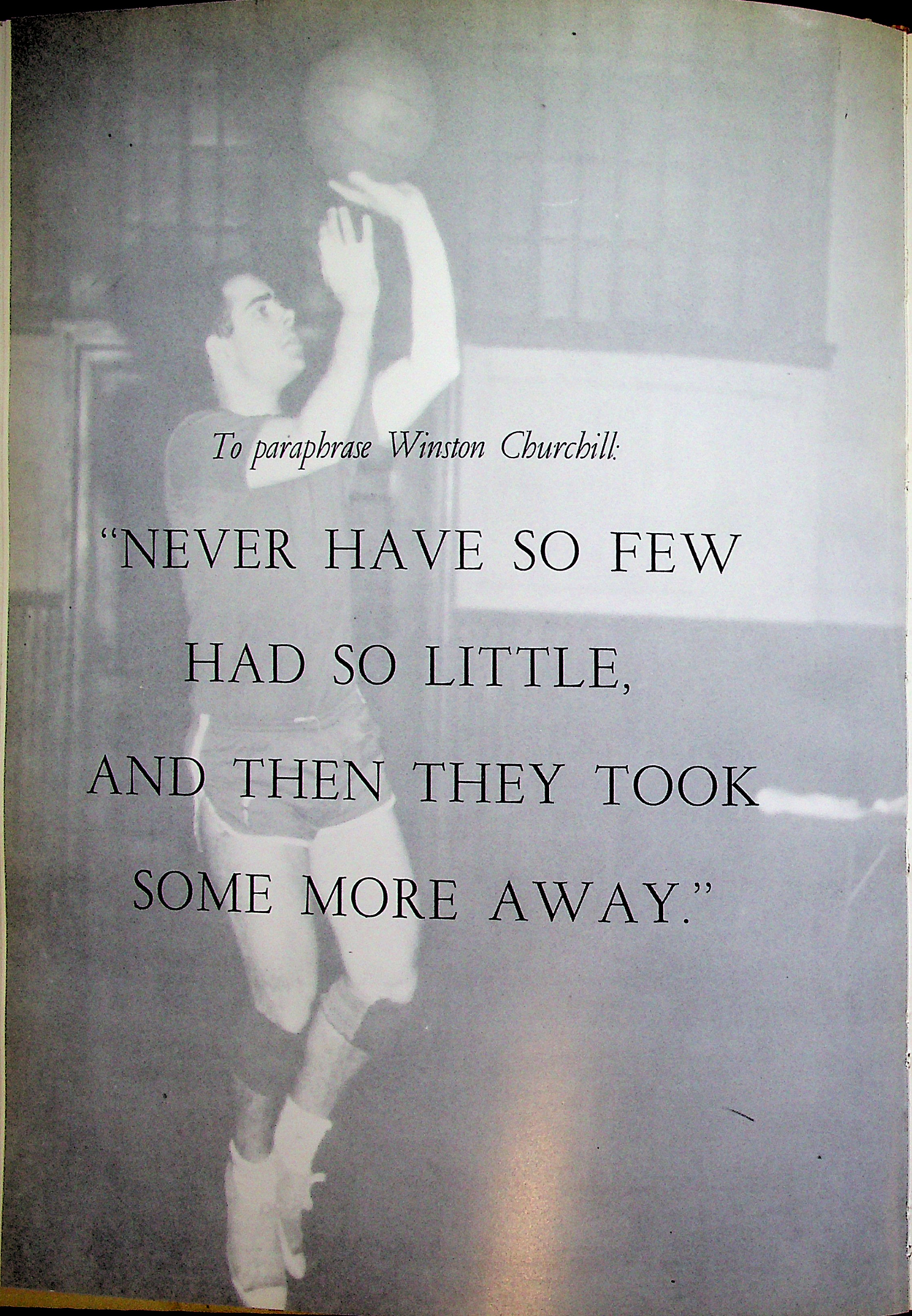
Mervin Gilbert DES
319 Bay View Ave., B'klyn 24,

Laurence R. Lemkin DES
230 E. 4th St., NYC 3

Antonio Ruiz Jr. DES
73 8th Ave., NYC 11

Vincent F. Sorrentino DES
73 Eighth Ave., NYC 14,

Bonnie G. Takas DES
137 Thompson St., NYC 12,



To paraphrase Winston Churchill:

"NEVER HAVE SO FEW

HAD SO LITTLE,

AND THEN THEY TOOK

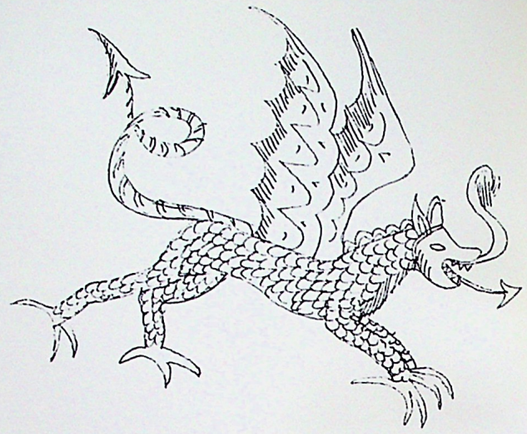
SOME MORE AWAY."

Man does not live by slide rules and palettes alone. Some form of safety valve must exist in a school like Cooper Union where weary engineers and artists may try to forget the endless parade of integrals, dancing green electrons and flying paint, which runs through their heads like the proverbial "visions of sugar plums." Moreover, in a subway school, a means of forming friendships with fellow students outside the classroom is imperative, for if all the typical Cooper graduate has to show for an investment of four years of his life is a diploma, then Peter Cooper's experiment in free education must be deemed a dismal failure.

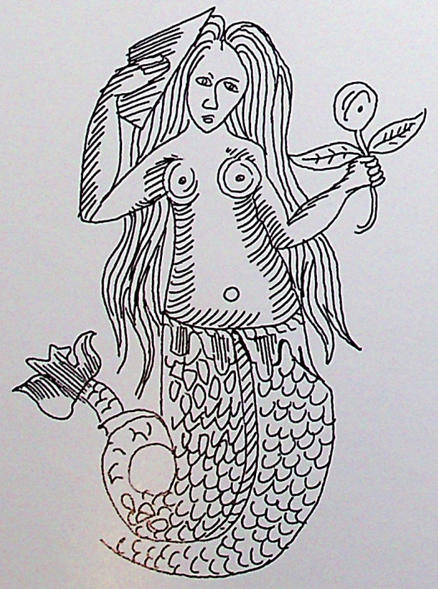
Happily, though, Cooper's program of extra-curricular activities is second to few in variety, if not in absolute size, and participation in almost any one of them is guaranteed to help a student get more out of his college career. Under the benevolent eyes of the Joint Activities Committee and the Student Councils of the Engineering and Art Schools, the extra-currics vie for the Cooperite's spare time; if participation in some of them is limited, the same does not always apply to the enthusiasm generated.

Sports occupy a prominent position, and although the Basketball and Volleyball Varsities are no more, the Pioneers are still able to instill a fair amount of respect in their collegiate opponents. How do they do it? Take one Bowling team with a second place finish. Deduct four graduates, another through matrimony, two others for more usual reasons. Serve to the Eastern Intercollegiate Bowling Conference for the 1960-61 season. Result: A starting streak of twelve straight wins.

Cooper's swordsmen, too, cause brave men to shiver, though in this case it may be as much due to inadequate heating in the gym as to their undoubted skill with foils and sabres. Visitors to the Church of All Nations may see this group going through some strange motions to the barking command of a leader. Afterwards, these same people do a stranger thing; they attempt to stab each other, and frequently succeed. With a formidable front line, and with new talent culled from the freshman ranks, the fencers commenced their season by testing the Saltus team of the YMCA. Afterwards, the collegiate season started with a hard-fought victory over Paterson State.

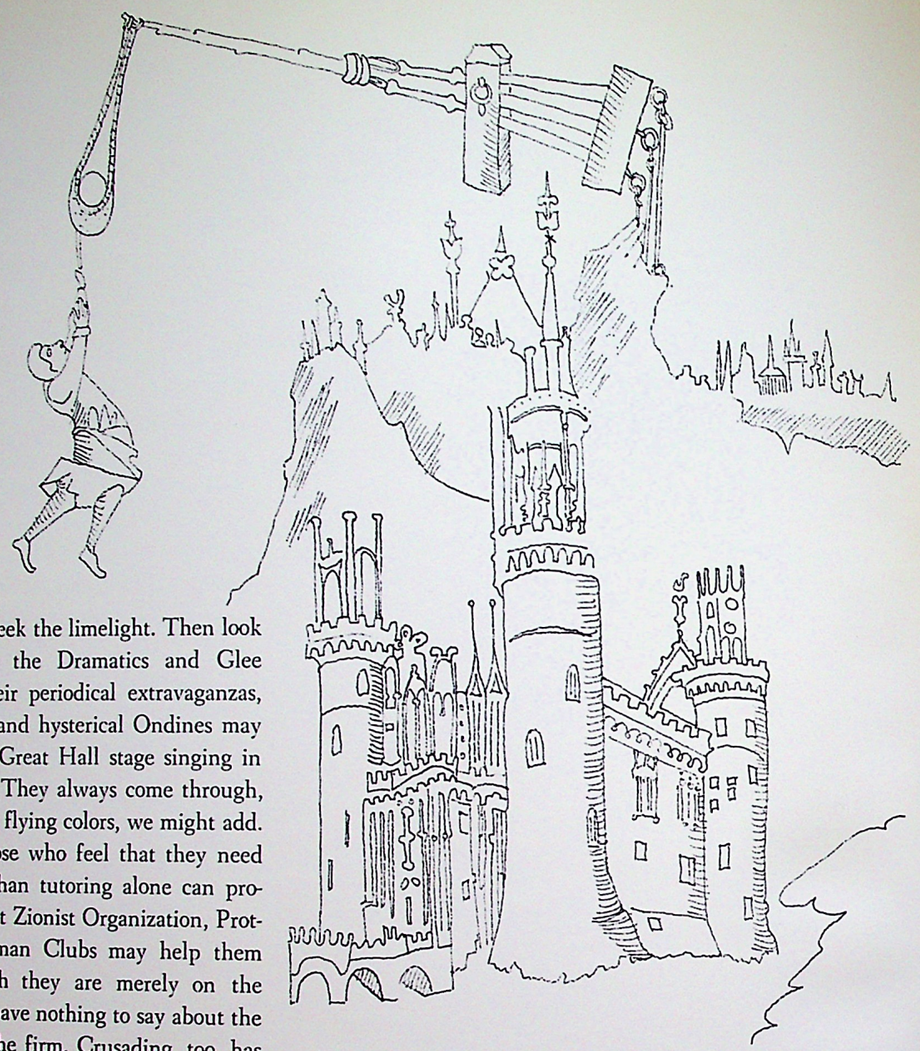


Two other crack squads fielded by the Maroon and Gold this year were the Rifle and Sailing teams. Cooper's sharpshooters continued in their happy-go-lucky ways, keeping scores a well guarded secret, but Gano Dunn Day at Green Camp finally brought them out into the open. The Mariners joyous experiences on chilly Saturday mornings were more publicized, and the team showed great resourcefulness in pulling out several close meets. Not a few heartbreakers were dropped by close scores, however.



Varsity participation is but a small segment of the Cooper sports picture, the intramural programs playing by far the largest part. Competition is encouraged in everything from bridge to swimming, and for those who want to go all out, a plethora of athletic clubs exist with no membership requirements save a little enthusiasm. (Sometimes very little enthusiasm). Still, the example of the Yacht Club's noble but futile effort in Washington D.C.'s "Frostbite Regatta" shows that a good deal more determination exists among Cooperites than is generally realized. This is especially true among the Athletic Association Governing Board, which is the general supervisory body for all Cooper sports activities.

What? You say you got an "I" and two "P"s from Professor Hollinger, and any reference to sports makes you violently ill? Then probably the brow-furrowing mental clubs are up your alley. Of course, you may be failing scholastically, too. Be that as it may, the cranium-stretching pastimes of the Chess, Humanities, Math and Debating Clubs are superbly suited to developing your mental acumen.



Possibly you seek the limelight. Then look no further than the Dramatics and Glee Clubs. Before their periodical extravaganzas, nervous Romeos and hysterical Ondines may be heard on the Great Hall stage singing in quivering voices. They always come through, though, and with flying colors, we might add.

There are those who feel that they need more assistance than tutoring alone can provide. The Student Zionist Organization, Protestant and Newman Clubs may help them receive it, though they are merely on the selling end, and have nothing to say about the management of the firm. Crusading, too, has its place on Cooper Square, and who can doubt it who has seen the white-painted deadly looking bomb perched daintily in the Foundation Building lobby, placed there by the SANE group.

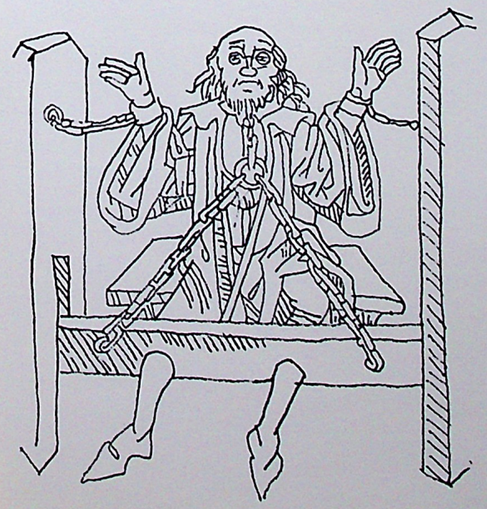
The Rocket and Camera Clubs perenially attract those of mutual interest, but the Hiking Club is in a class by itself. Look not for its intrepid members marking time in the posh confines of the Wollman Lounge. More likely, they will be dangling over cliffs, canoeing over waterfalls, or, for variety, stowing away aboard foreign-bound ocean liners. For those who want to enjoy nature in a more

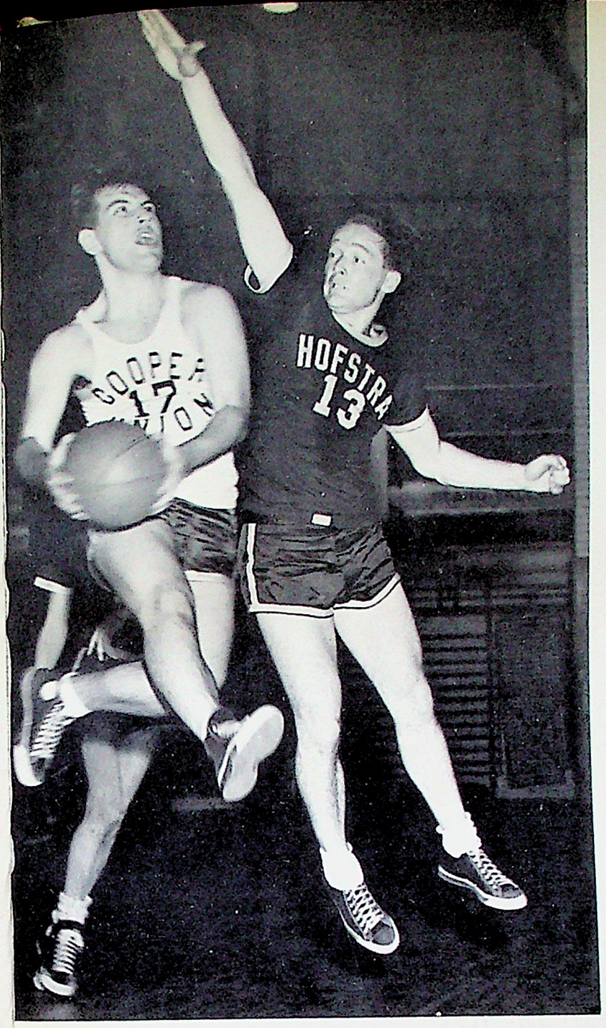
leisurely way, Prof. Blade's Green Camp Advisory Council is the ticket. Student leaders are trained by this body to lead Green Camp safaris.

Social life at Cooper heads the must list, and the Activities Plan's and the Social Activities Committee's weary cadres attempt to supply a measure of it to Cooperites. The great success of the Annual Dance and of Skit Nite attest to their perseverance.

In all endeavors, due credit is given where credit is due, and the Gold "C" and All-Sports Dinners place laurel wreaths on the sweaty brows of the heroes of the athletic field, as well as those who have given of their time and effort for the noble cause of Cooper activities.

Two important omissions in the activities schedule may have been noted by the more observant; namely the "Cable" and "Pioneer". They have been left for last because of some unfortunate rumors which have been passed around. To set the record straight, it is absolutely *not* true that they are run by slave driving ogres living off the flesh of hapless coolies graced by the title "staff". The fact that the editors-in-chief have been seen going down to the basement of the Foundation Building, dropping chunks of raw meat into a dungeon hidden there, and taking out Cable articles is no reason to suspect anything is amiss.

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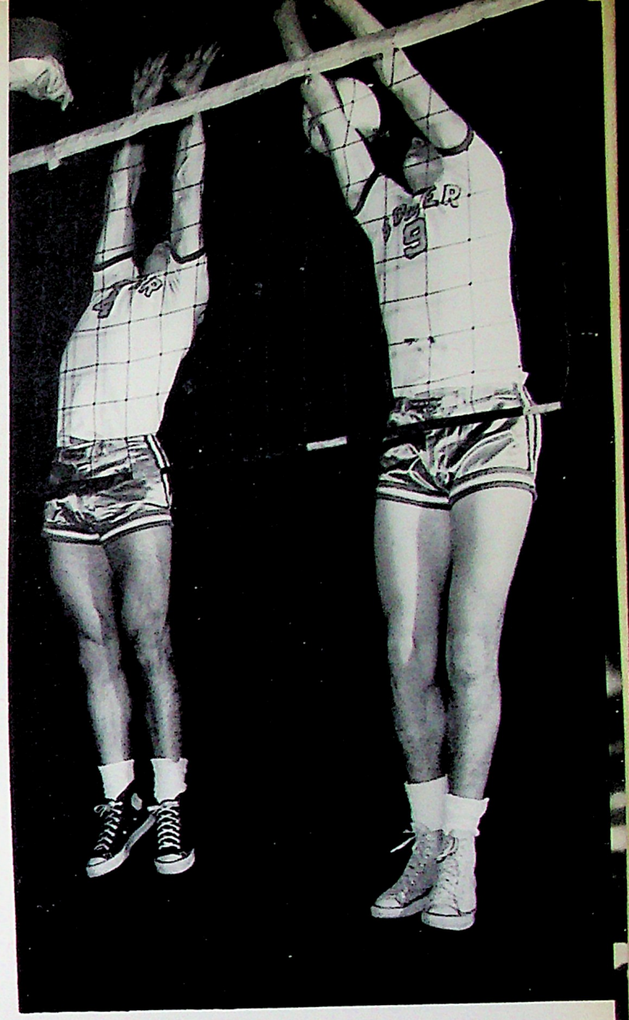
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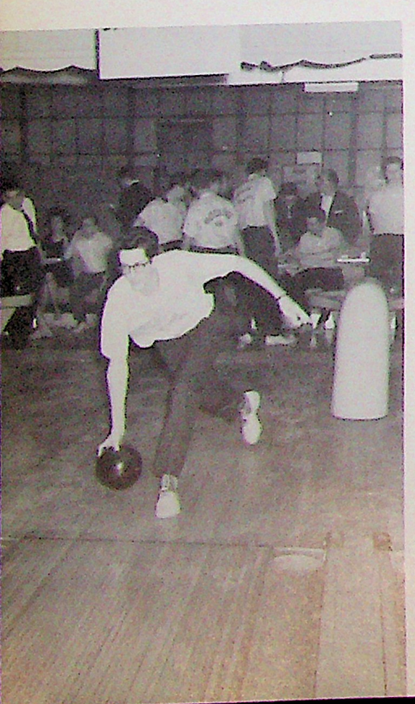

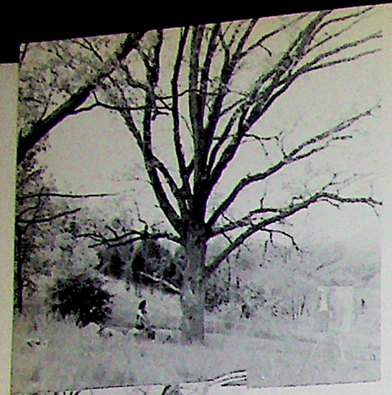

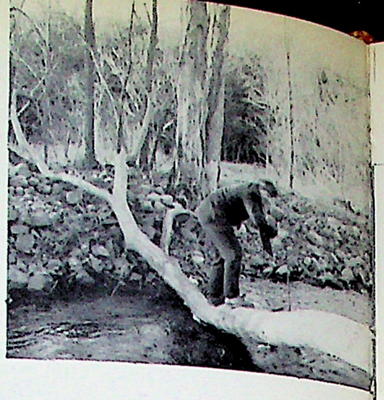

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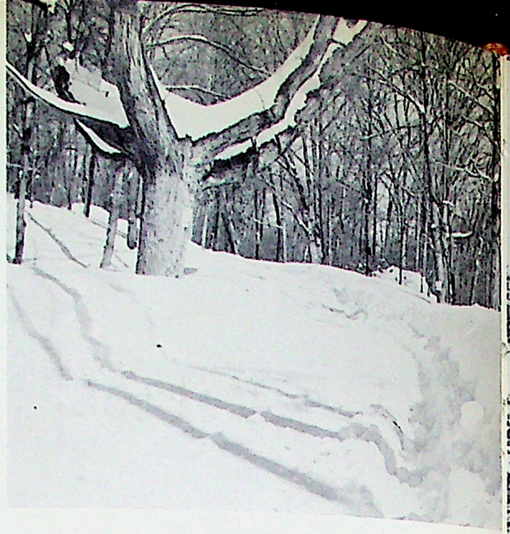

ARIES
PISCES
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CAPRICORN
SAGITTARIUS
SCORPIO
LIBRA
VIRGO
LEO
CANCER
GEMINI
TAURUS
RIO DE JANEIRO
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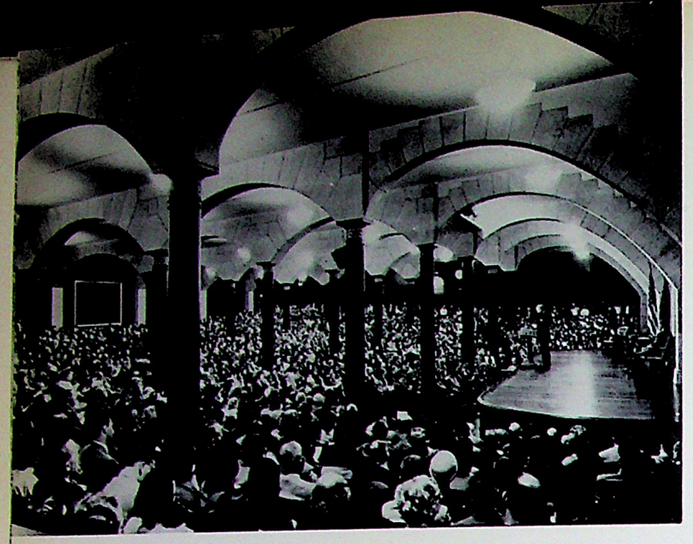
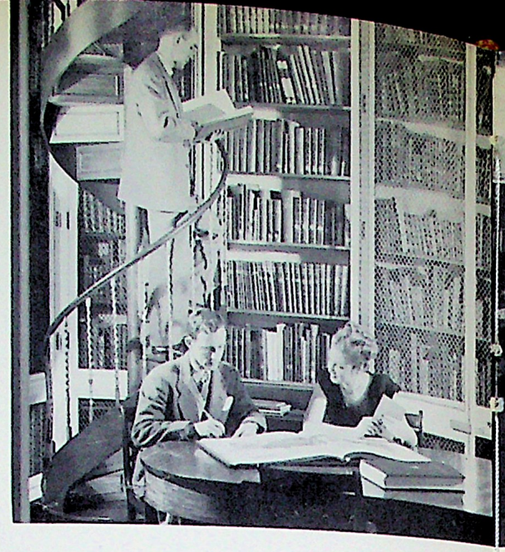




THE COOPER UNION FORUM

About 400 BC, Socrates advised his countrymen to "know thyselves." This year, 1960-61, the Cooper Union Forum had as its theme "The Individual." Forty outstanding lecturers helped Great Hall audiences and millions of radio listeners to better understand themselves, discussing the individual human being — his desires, his rights, his disciplines, his psychology, and his development. In this oldest of free adult educational programs in the U.S., speakers and audiences alike have found an opportunity for mutual education, and for free and open discussion of important issues and ideas. During the past century, lectures on all phases of learning and human endeavor have been given by noted authorities ranging from President to poet. The lectures are but a part of the Forum's educational program; however, many of the world's immortal works of music, drama and dance are regularly presented for the public's pleasure.

The Forum's founder could hardly have envisioned its impact on contemporary American thought, but there can be little doubt that it has consistently endeavored to carry out his fondest wish: ". . . to improve each and every human being."

MUSEUM

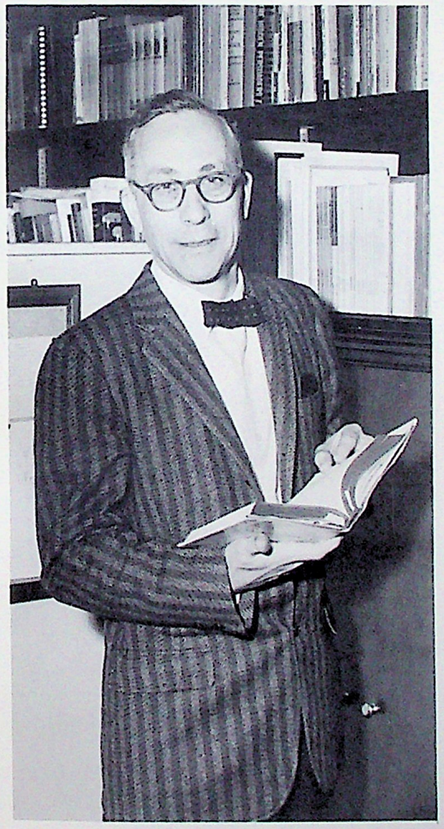
Tucked away on the fourth floor of the Foundation Building is perhaps the most unique branch of Peter Cooper's Union, The Cooper Union Museum for the Arts of Decoration. Its quiet atmosphere belies its bustling activity, for many of the world's foremost professional designers, as well as its neophyte artists, flock there to tap its vast well of information. Here is housed a treasury of design techniques dating from 1500 BC to the present. There are more than 80,000 items in this great repository. Art in practically every form is represented here: drawings, prints, ceramics, glass, furniture, jewelry, lace and embroidery, not to mention the collection of rare books to be found in the museum library. Even the exotic art of paper folding has been on exhibit, the first such show in the United States. A recent tribute to its great stature in this field eloquently states its history and future aims:

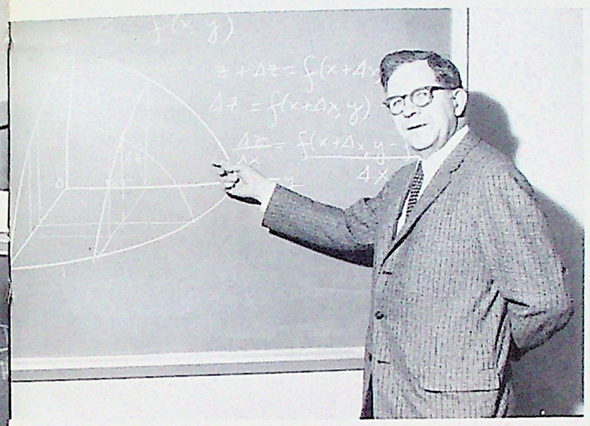
". . . (The Cooper Union Museum is to be cited for) maintaining, over a sixty year period, its pioneer position as the first of the modern museums, and for emphasizing its thoroughly practical aims for the individuals whose work interests lie in the field of design."

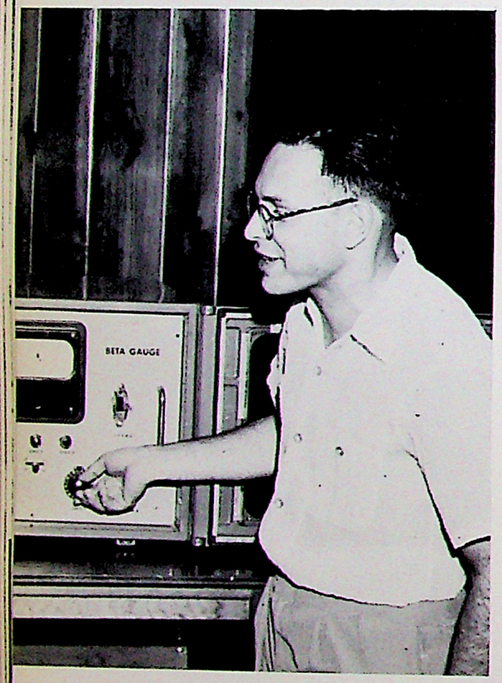
LIBRARY

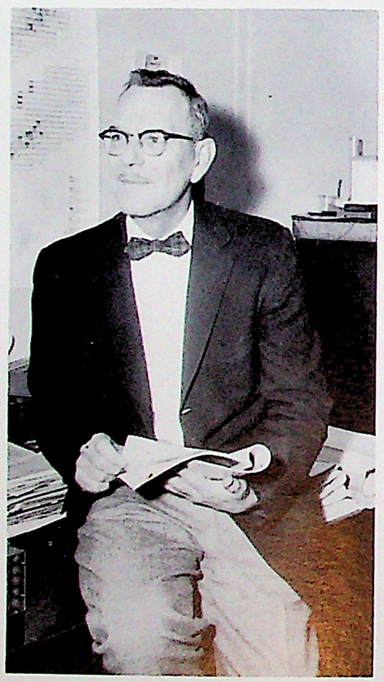
Established by Peter Cooper as a free public reading room in 1859 "to aid the efforts of youth to acquire useful knowledge," the library has since grown to keep pace with the times, and now volumes on Guided Missile Engineering and Microwave Transmission share shelf room with the yellowed volumes of a century ago. With its modern audio-visual facilities of slides, tape, microfilm, and records supplementing its vast accumulation of books, pamphlets, and historic material of every description, the library's purpose remains as always: ". . . to strike a fine balance between the preservation of our cultural heritage and the projection of scientific knowledge and aesthetic perception into the future."

So much for its ultimate aim; to the Cooper student, however, it remains an everyday retreat from the bludgeonings of his rigorous education, where logarithms and lab reports may be laid aside for a few hours with the great thinkers, or just a glance at Esquire. Also, much of the groundwork for this very same education is laid here, and amid the littered piles of scribbled calculations, graphs, and well-thumbed textbooks, the metamorphosis of fumbling student into competent engineer or artist takes place.



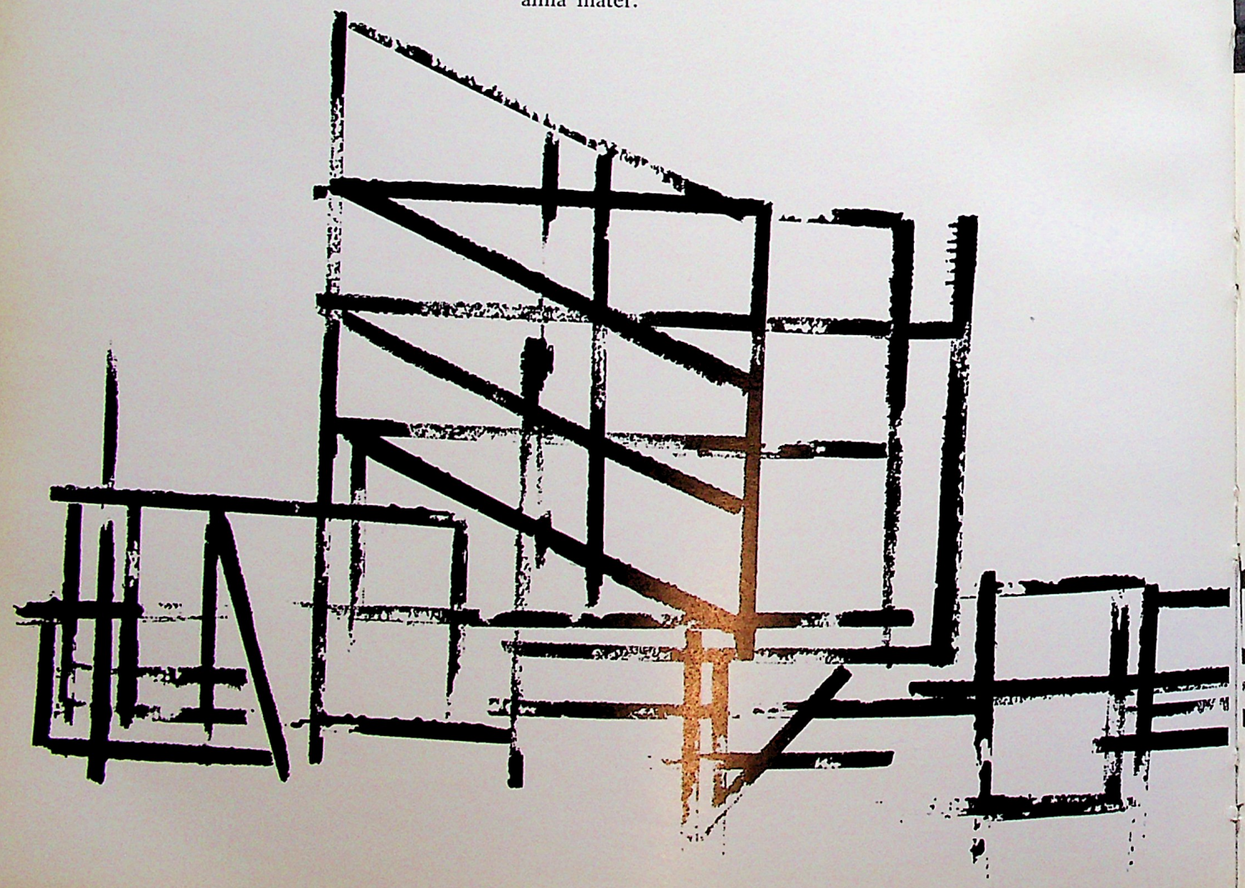



BETA GAUGE

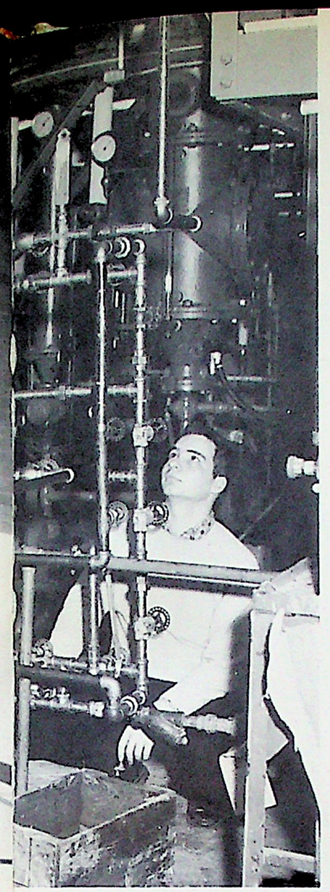


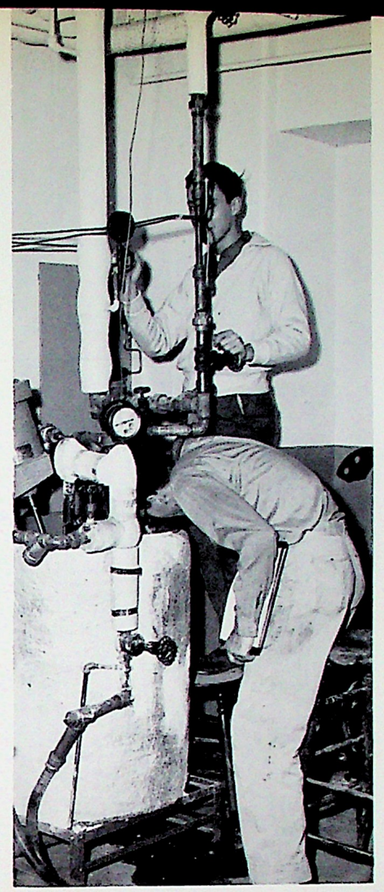
Abandon not your hope to enter here. Men who do not dare cannot gain the truth, and he who does not seek the truth just fills a seat in life.

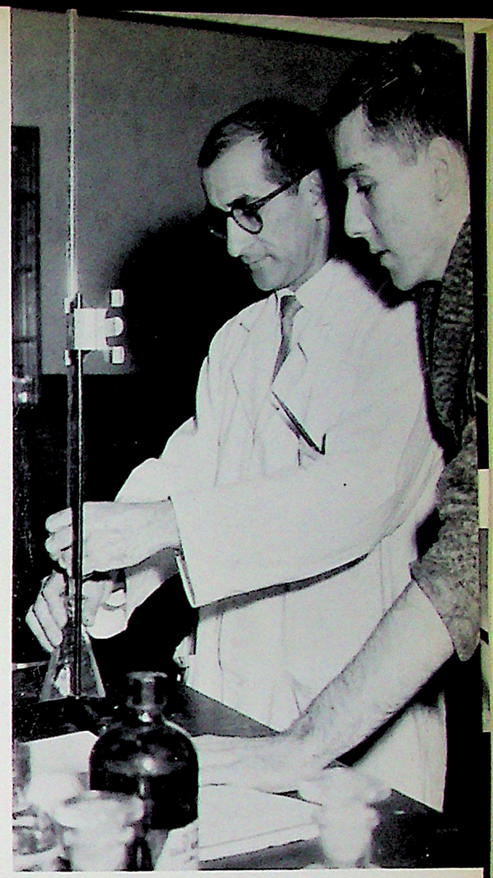
The four year road toward a degree in engineering begins at Orientation Camp, Ringwood, N. J. No expense is spared to make the freshman's stay an enjoyable one. Famous chefs (e. g.—Boy-ar-Dee) prepare scrumptious meals. Thrilling characters out of Cooper Union tradition are presented (e. g. 'erby), and friendly (?) upperclassmen advisors engage in congenial horseplay with the new group (e. g.—3:00 A.M. fire gongs). What matter it that the tensegrity mast has been moved by gremlins to the raft in the middle of the pond, or that a few students are lost on the midnight hike to Suicide Ledge? The camp has served its purpose — that of educating the students to the traditions of their alma mater.

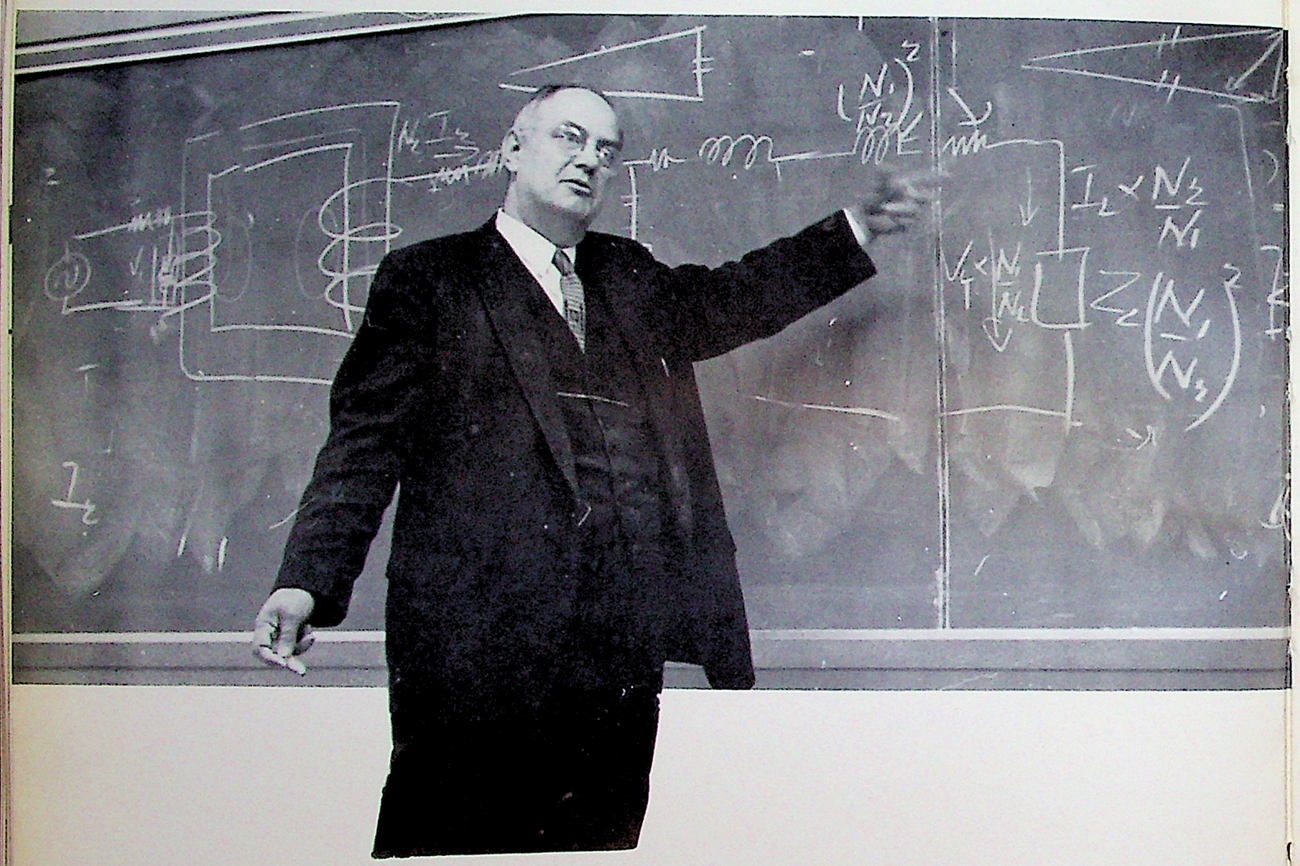


Returning to the "symbol in brownstone," the 98 freshmen sport new book covers, sweaters, the tote bags, and worried looks over the impending ordeal. By the end of the first week of classes, the freshman is keenly aware of the competition existing among the various school activities for his attention. The Yachting team, intramurals, varsity athletics, student publications, student government, S.Z.O. and Newman Club, and battalions of hobby clubs of every size and description bury him with appeals for support and participation. To this is added the lure of the Friday night smokers by Cooper's five fraternities. To the freshmen gorging themselves on beer and sandwiches, the sundry advantages of pledging are carefully pointed out in a tone of voice commensurate with their importance: "What a set of files — NYU, Hunter, and Queens girls *plus*







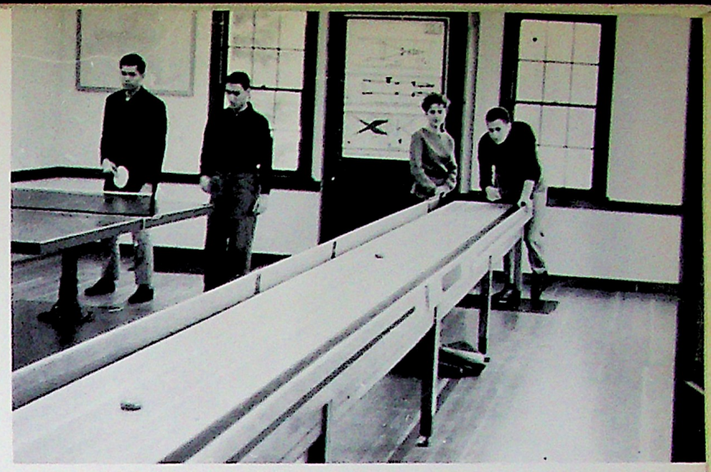


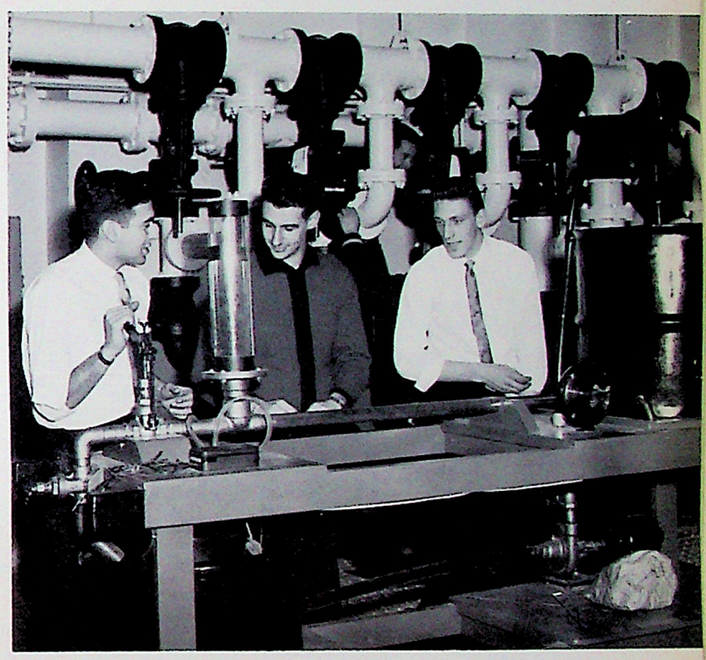
exams and lab reports *plus* inside advice on how to snow each and every prof and instructor." "Twenty-five, count 'em, twenty-five cars. No bus rides to Green Camp for us guys" "Only 262'-1" to McSorley's."

A few lucky souls slip easily into the routine of readin', writin', and midnight oil; for most, it is slightly akin to having teeth pulled. The going is sometimes rough. Passionate outpourings of emotion on H 11 compositions are often drowned under a torrent of red ink spewed forth by the heartless professors. The $8.00 breakage fee of Chem Lab dwindles as innumerable test tubes, retorts, and other items become casualties in the war of science. Many who start physical education with expectations of a gut course are rudely surprised. ("I hear the *advanced, advanced* swimming course has us swimming up a 'light drizzle' "). Much wheezing and groaning issue forth from McBurney as 6:30 miles are attempted, and muscle-wrenching calisthenics try study-flabby bodies.

At the first onrush of exams, many freshman dreams of a breeze to the Dean's List 'a la high school' land like a lead zeppelin, as students discover that the fine art of "slinging it" on exams does not carry the importance it formerly did. The muse who penned the immortal line that *"men live lives of quiet desperation"* must have had freshmen at this time in mind. Nevertheless, life goes on in spite of an occasional messed-up exam, and soon brief reprieves are given the students in the form of Thanksgiving and Christmas vacations. On the last school day before the latter vacation, freshmen who have not yet succeeded in drowning their troubles in the 50 degree waters of the McBurney pool discover an excellent alternative at McSorley's.

In the wild melee of the first *real* vacation, most take an extended holiday from slide rules, et al., to indulge in a baccanalian round of Christmas and New Year parties and/or

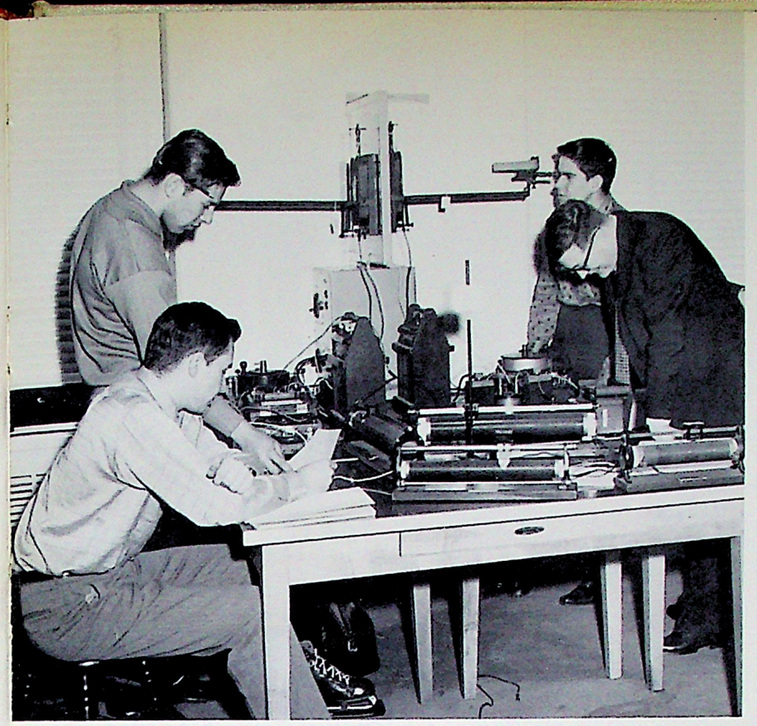


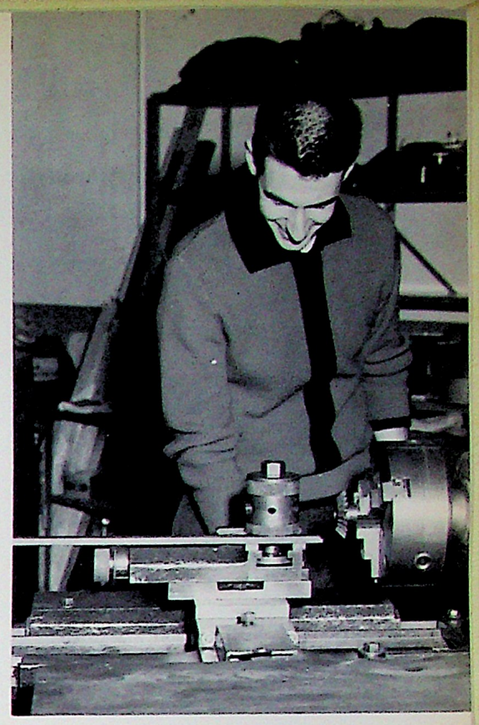


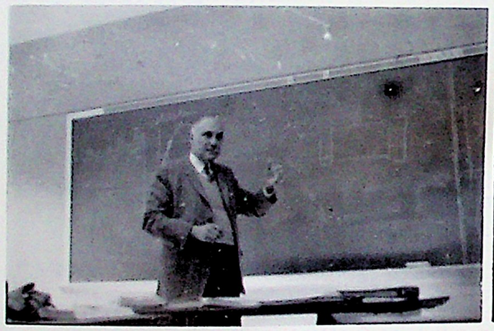
carousing of every description. Sad awakenings occur late in the afternoon of January first as drafting jobs and book reports, assigned before the vacation, and due *the following day*, are begun.

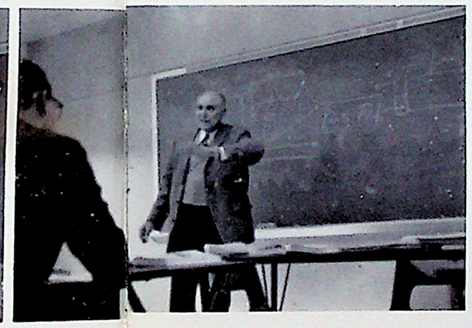
With January comes the bi-annual blight, better known as finals, and the ordeal of waiting two weeks for the news, good, bad, or indifferent, puts the damper on what would otherwise be a carefree intersession. As inevitably as death or taxes, the pink sheets arrive, thoughtfully waxed against the possibility of tears smearing the sacred lettering. (*"A 'P' Mom? That means perfect!"*).

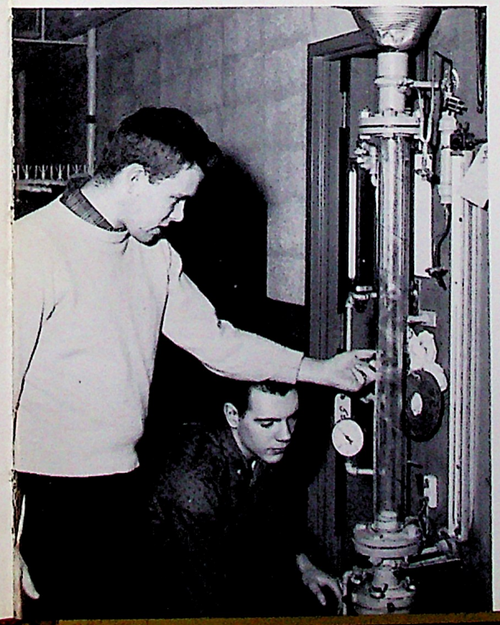
The second semester sees a slight thinning of the freshman ranks, but if a few familiar faces are absent the old first day heart-in-





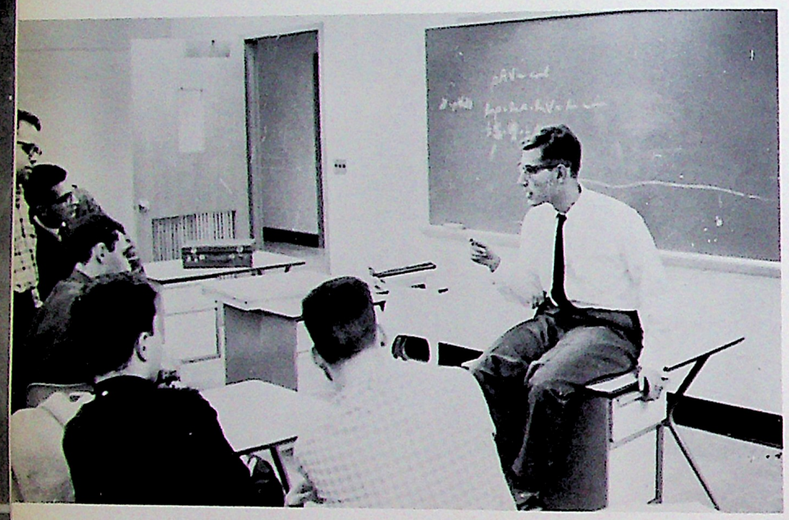


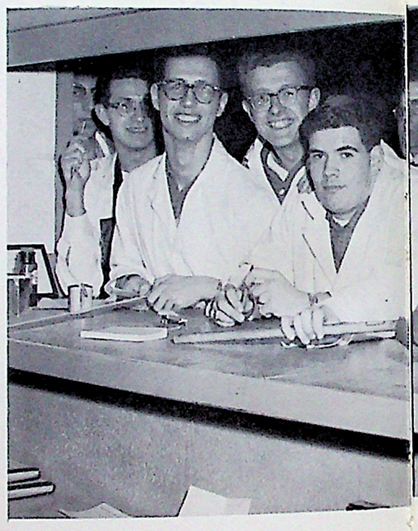


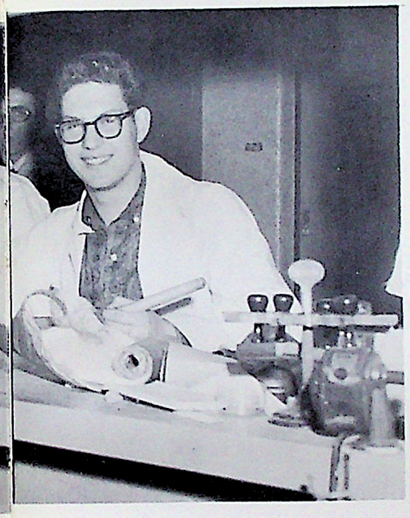


mouth feeling is omnipresent. Predictably, the usual difficulties arise as they have for every class within memory. Freshmen who have yet to learn to integrate $u^n du$ gape in amazement at Professor Wolfe's triple integrals. ChE 16's Qualitative Analysis starts and ends rough: ("But Professor, you can't mean there are no uranium ions here!"). Students whose only acquaintance with the equine variety of animal was with the rocking-horse, ride the Prospect Park range with Clint's Cavalry, returning saddle-sore and quaking to school.

In spite of (or perhaps because of) these and other problems, signs of youthful enthusiasm are unmistakable. Streams of water shot from guns arc across the darkened Physics lecture hall, doubtless to test the theory of projectile motion. Wild poker and bridge games in the "pit" do a volume business, and yo-yos resurrected from a bygone era make their appearance among the local moppets. The end of the fraternity pledge period is heralded by the appearance on campus of space-suited, ray-gun armed gangs, and tales of fraternity derring-do reach epic proportions: *"Say, did you really steal that toilet seat from the Waldorf-Astoria?"*



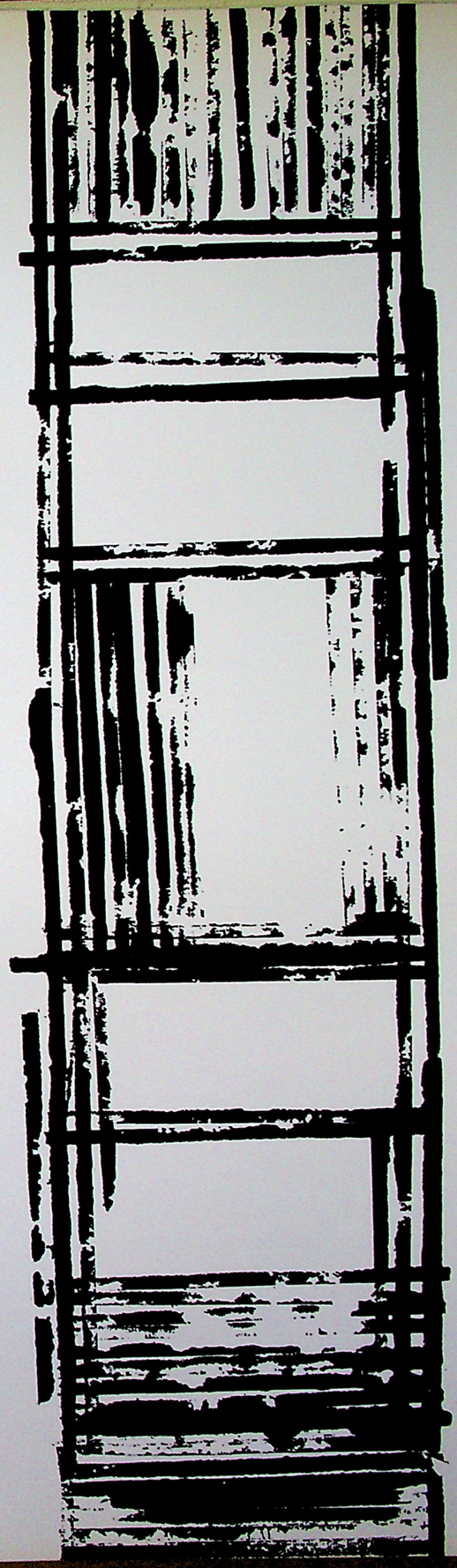


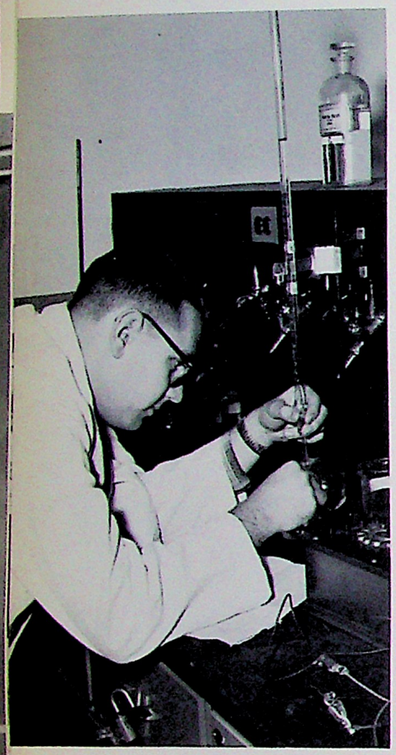


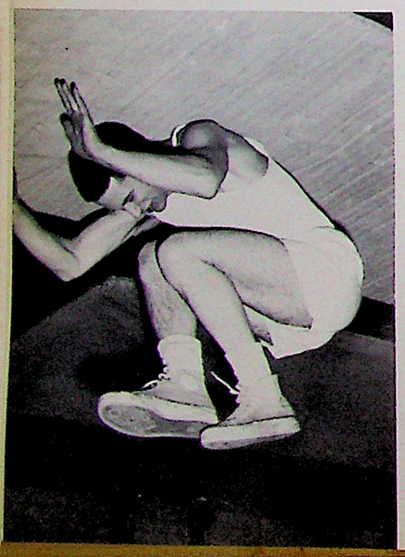
If there are a few failures, most are successful in running the blue-book gauntlet, and the following years would see the application of the tools so arduously learned to the more serious business of engineering.

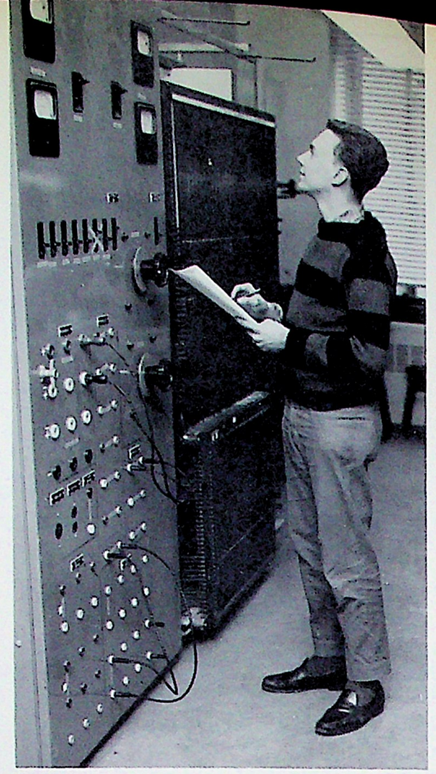
After a summer of bellhopping, camp counselling, wiring framjin orbulators, or just plain loafing, school began again for those who had been successful in their freshman endeavors. The third semester, beginning the second year, meant you could now write "2D" instead of "Sect." The trips to the Hewitt Building, dodging traffic and bums, were more frequent now, and if anything was a sign of upperclassmanship, this was.

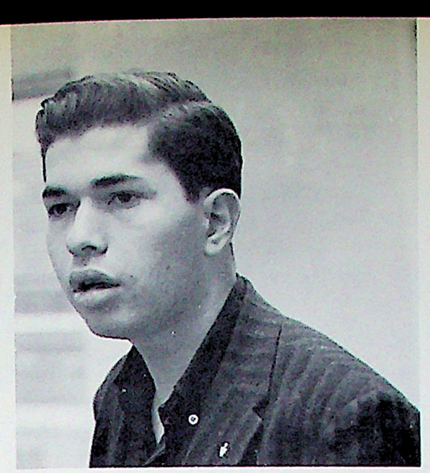
Abandon not hope ye who have come this far.











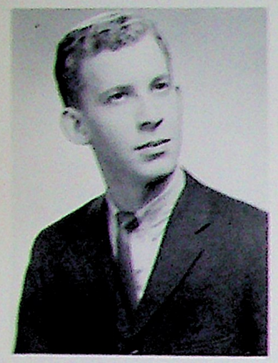
Time soon found everyone somewhat adjusted to the routine, although probably not keeping up with it. "These 30 hours of math aren't much", it was overheard, "but that 50 hours of physics homework is a killer." He who hesitated or was without files was lost. Nevertheless, many were doggedly pursuing their own particular extracurricular interests from managing volleyball tournaments to rehearsing for *Hamlet*. The beanies and bowties appeared again, but this time it was the other guy who was wearing them.

McSorley's Day came and went again, and before long the fourth semester began for those fortunate enough to still be around. Along with it came an apparent never-ending Centennial Celebration and the proposition that light travels from left to right. The different options began to go their separate ways, and the EE's found out that their department had not forgotten them. The end of the second year meant more surveying for some ("This kid says he knows where mine is".) , but for the most part it meant the beginning of a few months of more bellhopping, etc, loafing, or perhaps making plans for that school you were going to in the fall.

But it was back again in September for most, and before long they were laying the cornerstone of the New Building (anything to get a block further from Hartz Mountain). The weeks rolled by and it was every ME instructor for himself. Soon Professor Roemmele's office became very popular. "Sent out 700 job applications this summer." "Get anything?" "Yeah, my father knew somebody."

Along with the end of the year appeared lines of hopefully expectant students gazing through library windows at the construction going on across the street and wondered if Nirvana — a place in the New Building — was really going to come as predicted next semester.

What then remains is to make our visit on this planet known to someone else. Is this not the wish of every man?



Bernard Baratz ChE
2311 E. 21 St., B'klyn 29, N. Y.
AIChE, LSK (Social Chairman), Editor-in-Chief, "Filter Press"
"From now on, I'm dedicating myself to science."

Jack S. Berger ChE
4312 14th Avenue, B'klyn 19, N. Y.
SZO, Math Society, Treasurer of AIChE, President of AIChE
"That's a very interesting concept."

Charles A. Bolthrunis ChE
104-17 105 St., Ozone Park 17, N. Y.
Varsity Volleyball, President-Newman Club, Vice-President Omega Delta Phi, AIChE, Student Leader

Benjamin Eisenberg ChE
16 Jefferson Ave., Binghamton, N. Y.
APO, AIChE, Student Leader, GCAC, Director of Glee Club, Manager of Cheerleaders, Intramural volleyball and basketball, Chess Club
"And oh, 'Tis true, 'Tis Sue."

Matthew J. Gross ChE
2003 Ave. J, B'klyn 10, N. Y.
Alpha Phi Omega, AIChE, Intramural bowling
"Each sweet kiss seems always out of reach."

Robert E. Hoch ChE
75-29 61 St., B'klyn 27, N. Y.
Member of AIChE, handball & bowling intramural
"Man was never meant to meddle with thermodynamics."

Warren S. Hoffman ChE
43 Central Parkway, Mt. Vernon, N. Y.
Alpha Phi Omega: President, Vice-President, Book Exchange Chairman, AIChE, Intramurals, Green Camp Student Leader: GCAC
"Entropy is important, but it isn't everything."
— Ohring

Fredric A. Litt ChE
2080 Wallace Ave., Bronx 62, N. Y.
Yacht Club, Varsity Sailing Team Captain, Tau Beta Pi, APO, AIChE
"God protect me from my friends; my enemies I'll handle myself."

Steven H. Mendelson ChE
2333 Grand Ave., N. Y. 68, N. Y.
AIChE, Intramurals
"The long, winding road crosseth not upon itself."

George E. Moehringer ChE
83-58 Charlecote Ridge, Jamaica 32, N. Y.
Newman Club President, Student Leader, J. V. basketball, Intramurals
"Nothing in the world would ever be done if a man waited to do something until he could do it perfectly."

Harold Mukamal ChE
24 Neptune Ave., Woodmere, N. Y.
Publications Chairman of SZO, AIChE, First Vice-President of APO, Vice-President of Math Club, President of Rocket Society, Student Leader
"Really?"

Henry W. Sullivan ChE
141-59 85 Road, Jamaica 35, N. Y.
Varsity Bowling Team, JAC, GCAC Chairman, AA Governing Board, Gold and Silver C, Student Handbook Chairman, Intramural basketball, volleyball, AIChE, Cable, Bowling Club, APO
"'ever probing for the source of the candle's light."

Elihu L. Turetsky ChE
56-41 185 St., Flushing 65, N. Y.
Engineering School Student Council, Treasurer-Student Chapter AIChE, columnist for "The Filter Press," Captain-Freshman section intramural bowling, intramural basketball
"Seriously . . ."

Melvin L. Wasserman ChE
2 Arden St., N. Y. 40, N. Y.
Student Zionist Organization, AIChE

Martin Winn ChE
236 Montgomery St., B'klyn 25, N. Y.
AIChE student chapter

Robert F. Woods ChE
3715 Pratt Ave., N. Y. 66, N. Y.
Protestant Club, Intramural volleyball and bowling, AIChE
"Be not so entranced by man's wonders as to turn away from His — for they are His that truly leave one in awe."

Harry Armen Jr. CE
224 East 25th St., N. Y. 10, N. Y.
Chi Epsilon, Omega Delta Phi Fraternity, Art Editor of Survey, ASCE, Intramural softball
"If elected, I will not send your sons abroad."

Samuel B. Blumert CE
1143 East 10th St., B'klyn 30, N. Y.
Student Zionist Organization-Chapter President, V. P., Program Chairman, Hebrew Chairman, National Education Chairman; Editor of Survey
"What you mean 'not neat?' I sharpened my crayon last semester."

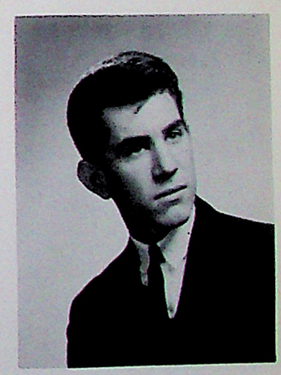
Alan Brandt CE
1042 45th St., B'klyn 19, N. Y.
Chairman-Social Activities Committee, Social Chairman-Sigma Kappa Tau, Class representative-Eng. School Student Council, ASCE, JAC, IFC
"I'm not late; the clocks are just wrong."

Herman M. Braude CE
230-31 53 Ave., Bayside 64, N. Y.
Varsity Basketball Team, Dramatic Club, Bowling Club, Intramural Bowling, Intramural Basketball Official, ASCE
"Of course I have the homework! Marcey was up all night."

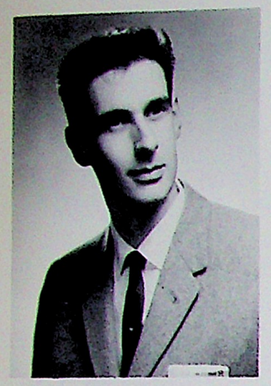
Stephen S. Braunstein CE
69-63 137th St., Flushing 67, N. Y.
Assistant Manager-Basketball, President-Debating Society, Editor-in-Chief: Pioneer, Chairman-Honor Societies Dinner, JAC, ESSC, ASCE Tau Beta Pi, Chairman-Activities Plan, Vice-Pres. Chi Epsilon, Bowling Intramurals
"O.K. Prof., you can sit down now, I'll take over."

Joseph Dobrowolski CE
545 East 12th St., New York 9, N. Y.
Varsity Basketball, President of IFC, Treasurer-Omega Delta Phi Fraternity, Student Leader, JAC
"How about a break Prof.?"

Joel O. Lubenau CE
439 Central Ave., B'klyn 21, N. Y.
Chairman-All Sports Dinner, Treas.-ASCE, Elected Secretary-Athletic Association, Cap't-Varsity Bowling Team, Sports Editor-Pioneer, Cable Literary Staff, Student Counselor, Pres.-EIBC N. Y. Div.
"It's a nice building, but where are the bowling alleys?"



Gary Morgerman CE
91-18 88 Road, Woodhaven 21, N. Y.
ASCE, basketball
"I'd let you have it but I can't get the wallet out of my pants."



Ronald P. Murro CE
High St., Elmsford, N. Y.
Secretary and Treasurer of Chi Epsilon, ASCE
"Whatch'u mean jellybean, skatey eight? Elebenteen."

Ira N. Pierce CE
99-10 60th Ave., Rego Park, N. Y.
Editor-in-Chief and Business Manager-The Cable, Ass't. Business Manager-Pioneer, Treasurer-Alpha Phi Omega, JAC, ASCE
"Yeah, Uh Huh, Yup, That's Right . . Phooey!"

Dennis Rader CE
45-34 Utopia Parkway, Flushing 58, N. Y.
President-Chi Epsilon, ASCE
"Be reasonable fellas, do it my way."

Charles B. Schwartz CE
396 East Third St., B'klyn, N. Y.
Sigma Kappa Tau-Vice-President and House Chairman, Varsity and J. V. Basketball Team, Ass't Chairman-Social Activities Committee, Pioneer Staff, IFC basketball, ASCE, Intramurals, Great Ones, Riis Park Bathing Society
"It's all worked out in this book my father has."

Max Spindler CE
1057 58th St., B'klyn 19, N. Y.
SZO, APO, Camera Club, ASCE
"It's easy when you use the Max factor."

Robert E. Sullivan CE
118 Branton St., B'klyn 36, N. Y.
Bowling Club, American Society of Civil Engineers
"I took lettering lessons from Sam."

Ira Whitman CE
85-30 67th Road, Rego Park 74, N. Y.
President and Pledgemaster-SKT, President-ASCE, President of Interfraternity Council, Pioneer, Intramurals, Riis Park Bathing Soc.
"I'm not blushing; I'm really part Indian."

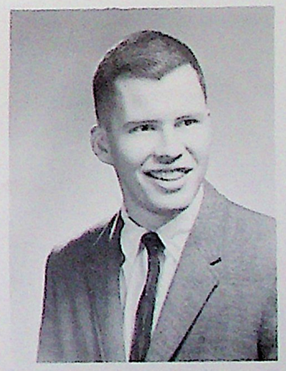
Peter .T. Zindulka CE
111-32 124th St., South Ozone Pk., 20, N. Y.
Junior Varsity Basketball, Chi Epsilon
"I catch up on my sleep in Humanities."

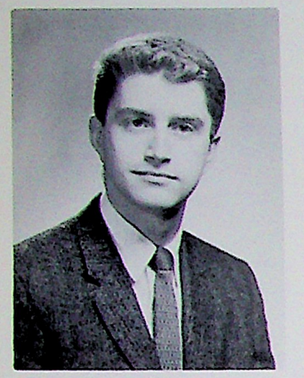
Jacob J. Appel EE
93-17 213th St., Queens Village, 28, N. Y.
Omega Delta Phi, Tau Beta Pi, Blonder-Tongue Scholarship Award, Varsity Volleyball-Mgr. & Player, Newman Club, Rifle Club, Intramurals, Institute of Radio Engineers

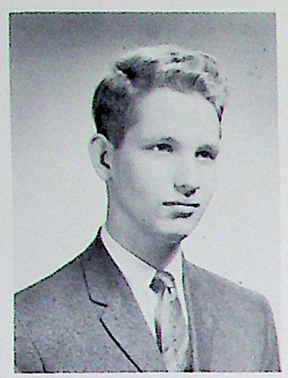
Harvey J. Greenberger EE
504 Grand St., N. Y. C. 2, N. Y.

Edward R. Gruberg EE
400 E. Mosholu P'kway., New York 58, N. Y.
Varsity Basketball, Varsity Sailing Team-Mgr. & Player, Engg. School Student Council-Sec'y, IRE A.A. Governing Board, Junior Class V. P., AIEE Sec'y,
"Understand & Care."

Irving Haber EE
1206 Virginia St., Far Rockaway 91, N. Y.
APO, Bloodbank Chairman, Film Program Chairman, Student Leader, SZO, IRE, MAA
"It IS obvious."







Bernard H. Heilweil EE
3850 Sedgwick Ave., Bronx 63, N. Y.
Varsity Sailing Team, AIEE-IRE: Vice Pres., Intramural Volleyball, A. M. S., Tau Beta Pi
"If you think you can't, you won't."

Ira L. Jacobson EE
1605 Metropolitan Ave., Bronx 62, N. Y.
Student Zionist Organization-National Projects Chairman, Chapter Vice-Pres., Pres., & Treasurer; Alpha Mu Sigma, Math Society, Inst. of Radio Eng.
"There is crying in the streets, amidst the wine."

Alan M. Katcher EE
50 East 18 St., B'klyn 26, N. Y.
Treasurer and Vice-Pres. of Athletic Assoc., Annual Dance Comm., Volleyball Intramurals, Tau Beta Pi, LSK, Math Club
"I didn't have time to do the problem. I was busy playing bridge."

Albert I. Kaufman EE
72-15 41st Ave., Woodside 77, N. Y.
J. V. Volleyball, SKT Treasurer, Student Leader, Glee Club President, softball and bowling Intramurals, "Great Ones,"
"One could do worse than be a swinger of birches." — Robert Frost

Stuart B. Lerner EE
446 Kingston Ave., B'klyn 25, N. Y.
Co-Chairman Fine Arts Comm. of Humanities Club, AIEE-IRE Chairman, Pioneer "Strings and Things," AMS, Varsity Volleyball Team, Volleyball Club Pres., A.A. Governing Board, Field Day Comm.

Alfred M. Levine EE
169 Penn St., B'klyn 11, N. Y.
Prior of Alpha Mu Sigma Praternity, Student Bank Treasurer, Co-Chairman Fine Arts Comm. of Humanities Club, AIEE-IRE Met. Joint Student Coun., IFC, Cable, Chess, Intramurals
"Colleges . . . can only serve us when they aim not to drill but to create . . ." — Emerson

Herman B. Natanblut EE
7040 Colonial Road, B'klyn 9, N. Y.
A.A. President, J. V. and Varsity Volleyball Captain, Chairman Annual Dance Comm., AIEE-IRE Treasurer, Lambda Sigma Kappa Housemaster
"I abstain."

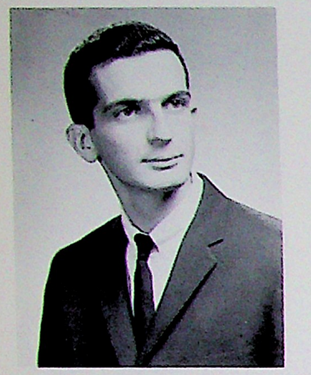
Patrick Peruo Jr. EE
530 Hendrix St., B'klyn 7, N. Y.
AIEE Metropolitan Rep., Volleyball Intramurals
"Something there is that doesn't love a wall."
— Robert Frost

Michael W. Rolund EE
346 58th St., B'klyn 20, N. Y.
Tau Beta Pi, IRE Secretary, Volleyball, Intramural bowling
"The wisdom of the world is foolishness with God." I Cor. 3:19

Lawrence P. Seidman EE
1572 E. 16th St., B'klyn 30, N. Y.
JAC Pres., Pioneer Editor-in-Chief, A.A. Treasurer, Orientation Student Coun., Student Leader, Cable, Tau Beta Pi-Corres. Sec'y, LSK, Gold & Silver "C," Varsity Fencing, Intramural Volleyball, IRE
"This too shall pass away."

Rodney B. Sorkin EE
895 West End Ave., New York 25, N. Y.
Tau Beta Pi President, Varsity Fencing Team, SKT, AIEE-IRE
"Too much and too little wine. Give him none, he cannot find truth; give him too much, the same. — Pascal

Henry Weidemann EE
44-11 54th Avenue, Maspeth
Captain and Manager Varsity Rifle Team, A.A. Governing Board, ESSC
"A man is not what he thinks but what he does"



Edward D. Albano ME
68 Butler St., Paterson, N. J.
Pi Tau Sigma, ASME, Alpha Phi Omega
"Seek simplicity and distrust it." — Whitehead

Alf S. Alver ME
834 69th St., B'klyn 20, N. Y.
ASME

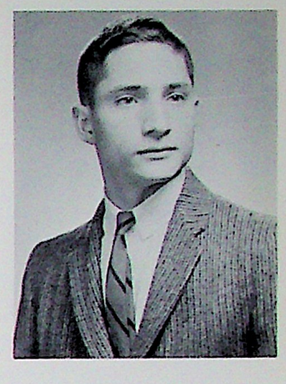
David M. Auslander ME
306 Banbury Rd., Massapequa, N. Y.
Varsity and JV Volleyball, APO, Tennis Club Team, Pi Tau Sigma, ESSC, Cable Photo Staff,
"Mr. 100% efficiency. He had to be to get half of 4DME through Cooper."

William Bitterli ME
26 Coale Ave., Staten Island 14, N. Y.
Omega Delta Phi Fraternity, ASME, J.V. Basketball, Intramural-basketball, softball and swimming
"Wait until I give Janice a call."

Michael Borkowsky ME
514 Rockaway P'kway., B'klyn 12, N. Y.
Vice-Pres. of Engg. Sch. Stu. Coun., "Gold C" Comm., Lambda Sigma Kappa-Vice Ruler, Dramatic & Glee Club, Mgr-AA Bowling Intra. Activities Plan Staff, ASME, AA Governing Bd., Pioneer, Cable
"I don't care what your transcript says, your cum. is 2.437165982."

Abraham Brot ME
250 W. 99th St., New York 25, N. Y.
APO Sec't, SZO, Cable Photo Staff, Intramurals, ASME
"Three days before my bachelor's degree, a bachelor no longer I'll be." — Allen R. Torbet

Donald S. Eisenberg ME
1836 East 26th St., B'klyn 29, N. Y.
Alpha Mu Sigma, ASME
Famous last words: "Don't worry fellas, she'll never get me!"



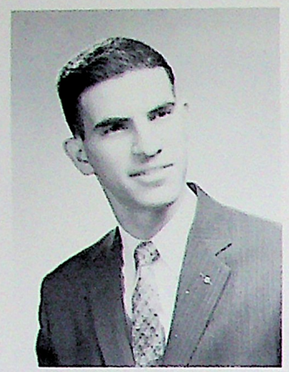
Michael L. Haas ME
1455 E. 21st St., B'klyn 10, N. Y.
Sigma Kappa Tau Pledgemaster, Pi Tau Sigma Vice-Pres., ASME, Great Ones, Riis Park Bathing Society, volleyball, basketball, bowling, softball Intramurals, Bobbi
". . . so that a man can stand up."

Arthur D. Kramer ME
1319 Newkirk Ave., B'klyn 30, N. Y.
Alpha Phi Omega, Pi Tau Sigma President, Yachting Team, Swimming Club, ASME
"A caress is better than a career."
— Elisabeth Marbury

Stephen J. Milioti ME
760 Bushwick Ave., B'klyn 21, N. Y.
Cable, Senior Editor, ASME
"The honourable end is the one thing that can not be taken from a man." — Spengler

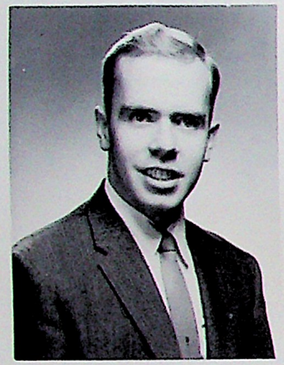
Edward L. Molishever ME
410 Ocean P'kway., B'klyn 18, N. Y.
Treasurer of Drama Club, ASME, Alpha Mu Sigma
"Professor, didn't you forget to assign the homework? Oh, I'm sorry fellas."

Lawrence H. Oswald ME
62 Stuyvesant Ave., Lyndhurst, N. J.
ODP Fraternity, Varsity Basketball, ASME, Sophomore Class Vice-Pres., Student Council, All sorts of Intramurals
"Laugh at people and you laugh at yourself; laugh with people and the world laughs with you."



William E. Schrank ME
215 Willoughby Ave., B'klyn 5, N. Y.
Lambda Sigma Kappa Ruler, Captain Varsity Fencing Team, Co-Editor-in-Chief Cable, Pioneer, ASME, SANE, Treasurer of JAC
"What do you mean I have to get out of The Pioneer Office? — It's only 2:00 AM!"

Lawrence Miles Slavin ME
77 Bronx River Road, Yonkers, N. Y.
Varsity Basketball Team, Sigma Kappa Tau, Pi Tau Sigma, Tau Beta Pi, ASME
"The only captain in history of a non-existent basketball team."



John Thompsen ME
142 Neal Dow Ave., Staten Island 14, N. Y.
President of Omega Delta Phi Fraternity, Secretary of ASME, Swimming Intramural Mgr.
"Four years the hard way, but Michigan was fun."

Phillip Avruch EE
155-21 Cherry Ave., Flushing 55,

Joseph J. Bazik STR
242 Metropolitan Ave., B'klyn 11, N. Y.
"In other words."

Walter Berkowitz EE
130-21 221st St., Jamaica, N.Y.

Lawrence J. Bober ME
52 Fairview Ave., Jersey City 4, N. J.
NJSPE, Newman Club-V. P., P.S.O.

Edwin T. Calkin EE
41 Montclair Ave., Paterson 3, N. J.
Tau Beta Pi
"Determined, Dared, and Done." — Christopher Smort
"I wish I thought What Jolly Fun!" Sir Raleigh

Jerome E. Cohen STR
174 Rivington St., New York 2, N. Y.

Alexander S. Costomiris EE
329 Grand St., Hoboken, N. J.
"Thank God."

Bernard T. Dankowski STR
4 Sheli Drive, Plainview, L. I., N. Y.

Norman E. Diana EE
P. O. Box 231, Shrub Oak, N. Y.

Bernard Eblowitz STR
68-07 61st Rd., Maspeth, N. Y.
Chi Epsilon
"More structural courses."

Raymond J. Finnerty ME
84-37 85th Ave., Woodhaven 21, N. Y.
Pi Tau Sigma
"Failures are divided into two classes — those who thought and never did and those who did and never thought."

Otto F. Gerkensmeier EE
110 Morningside Drive, New York 27, N.Y.
Tau Beta Pi

Siegfried Goldstein EE
7 Dutlittle St., North Babylon, LINY

Edward P. Gurski EE
151 West 10th St., Bayonne, N. J.
PSO Fraternity
"Pursue your means."

Kenneth Hauge ME
87 Washington Ave., Hillsdale, N. J.
Recording Sec'y: Tau Beta Pi,
Pi Tau Sigma

Henry Joel EE
36 East 4th St., New York 3, N. Y.

George N. Kaposhilin EE
8350 Boulevard East, North Berger, N.J.
Tau Beta Pi
"We will now discuss in a little more detail, the struggle for existence." — Darwin

Ralph Lightstone EE
41-43 39th Place, Long Island City, N. Y.

Michael J. Lorello EE
58-29 254th St., Little Neck, L. I., N. Y.

Marvin Lune EE
136-45 68th Drive, Flushing 67, N. Y.
Tau Beta Pi — Cataloger & Vice President

William Marion ME
1765 East 33rd St., B'klyn 34, N. Y.

Edward B. McGuire ME
966 East 28th St., B'klyn 10, N. Y.
Tau Beta Pi, Pi Tau Sigma-Sec'y, ASME, ASHRAE
"To my wife — whose patience and understanding have made this possible."

Richard Nicholas ME
315 16th St., B'klyn 15, N. Y.
Grand Master — Phi Sigma Omega Fraternity
"It was a snap — till you think about it!

Ben Peres ME
652 W. 163rd St., New York 32, N. Y.

Harvey Rait EE
5 Peri Lane, Valley Stream, N. Y.

Edward H. Rubin ME
186 Hooper St., B'klyn 11, N. Y.

Harold H. Shapiro ME
1428 E. 100th St., B'klyn 3, N. Y.

Robert T. Smith EE
703 West 184th St., New York 33, N. Y.
AIEE

Theodore Zimmerman EE
66 St. Charles Ave.
West Caldwell, N. J.

Chi Epsilon

The primary aim of Chi Epsilon, a national honorary civil engineering fraternity, is to increase the effectiveness of the civil engineering profession as a positive means of bettering human society. Specifically, it seeks to encourage and develop in undergraduate engineers those traits of character which will further that aim, and to honor those engineers who have, in part, realized that goal.

The Cooper Union Chapter has, since its founding in 1949, taken an active part in this work. Its annual Freshman Award for high scholastic achievement provides encouragement and recognition of superior scholarship. The Chapter's Honor Membership Roster includes men whose outstanding attainments and success in the civil engineering profession have earned them the highest regard. Cooper Union's Chi Epsilon brothers have traditionally held positions of high responsibility at the fraternity's National Conclave, which was held this year in Houghton, Michigan.

The Annual Honor Societies' Dinner festively and fittingly marked the close of a successful academic year.

President:	Dennis Rader
Vice-President:	Stephen Braunstein
Secretary-Treasurer:	Ronnie Murro
"Transit" Editor:	Harry Armen
Marshal:	Peter Zindulka

Top Row (Left to Right) -

Harry Armen, Jr., Pete Zindulka, Ronnie Murro.

Bottom Row: Dennis Rader, Stephen Braunstein

Pi Tau Sigma

The Cooper Union Pi Phi Chapter of Pi Tau Sigma, the national honorary mechanical engineering society, was founded "to establish a closer bond of fellowship . . to those men in the study and profession of mechanical engineering, who by their academic or practical achievement manifest a real interest and marked ability in their chosen work."

Students are elected on the basis of exemplary scholarship, integrity, personality, and sound engineering ability from the upper third of the mechanical engineering upperclassmen.

In addition to whatever assistance the Chapter is able to lend the Mechanical Engineering Department, social functions are planned. This year's highlights were the Annual Christmas Dinner, and the Annual Honor Societies' Dinner.

President:	Arthur Kramer
Vice-President:	Michael Haas
Recording Secretary:	David Auslander
Corresponding Secretary:	Ed McGuire
Faculty Advisor:	Prof. Walter S. Kut

Standing (Left to Right) — Jerome Lederman, Jon Ellenbogen, Ed McGuire, Sheldon Glickler. Seated: Arthur Kramer, Michael Haas. Camera Shy: Arnold Ackerman, Ed Albano, David Auslander, Ken Hauge, John Kovarna, Lawrence Slavin.

Top Row (Left to Right) – Jacob Appel, Dennis Rader, David L. Davis, Jon Ellenbogen, Ed McGuire, Stephen Braunstein. Bottom Row: Rodney Sorkin, Bernard Heilweil, Frederic Litt, Alan M. Katcher, Jack Berger, Michael Rolund, Lawrence P. Seidman. Camera Shy: Phillip Avruch, Edwin Calkin, Otto Gerkensmeier, Kenneth Hauge, Marvin Lune, Lawrence M. Slavin, Arnold Ackermann. Henry J. Kolnsberg, John J. Mc Ginn, John L. Moran, Frederick H. Nowak, Joseph J. Spera, Joseph A. Wlaysewski, Roger M. Wright. Leon Chernick, Eric K. Wallstedt, George Kaposhilin, Hans Verleur, Wilfred Thoms, George Sullivan, Thomas Sgro, Robert Osgood, Sr., Fredric Farber, Walter Brewer.

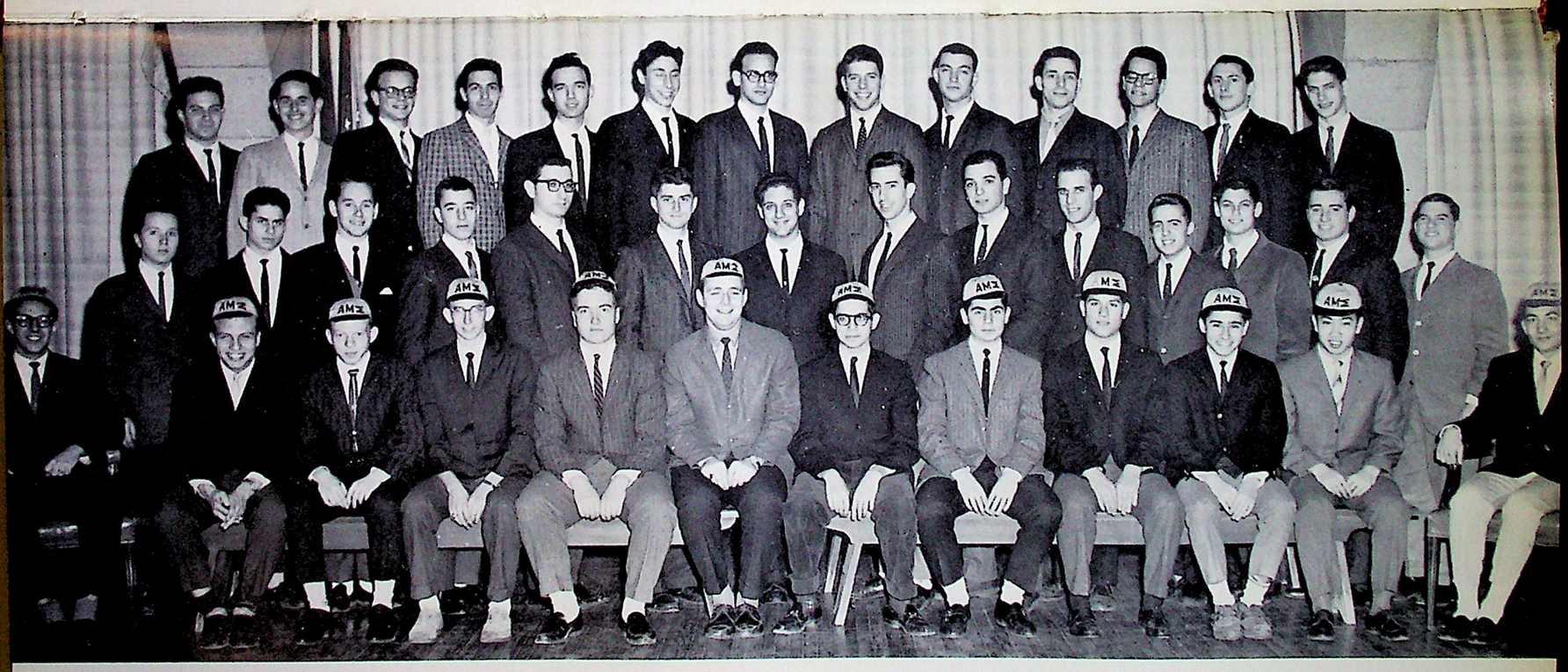
Tau Beta Pi

Tau Beta Pi is the national engineering honor society, and was founded at Lehigh University, Bethlehem, Pennsylvania, in 1885. There are now 103 active undergraduate chapters in United States engineering colleges, 27 alumnus chapters, and over 102,000 initiated members.

The New York Iota Chapter was established at Cooper Union in 1947. Since then, the Chapter has served its Alma Mater in many ways, primarily through its training and course evaluation programs. Furthermore, to emphasize the importance of the humanities in engineering education, Tau Beta Pi has established an annual award for excellence in this field.

To add a social event to its scholastic program, at the end of the school year, Tau Beta Pi brothers and guests participate in the Annual Cooper Union Honor Societies' Dinner.

President:	Rodney Sorkin
Vice-President:	Marvin Lune
Recording Secretary:	Kenneth Hauge
Corresponding Secretary:	Lawrence Seidman
Treasurer:	Leon Chernick
Cataloguer:	Alan Katcher
Faculty Advisor:	Prof. Frederick H. Miller



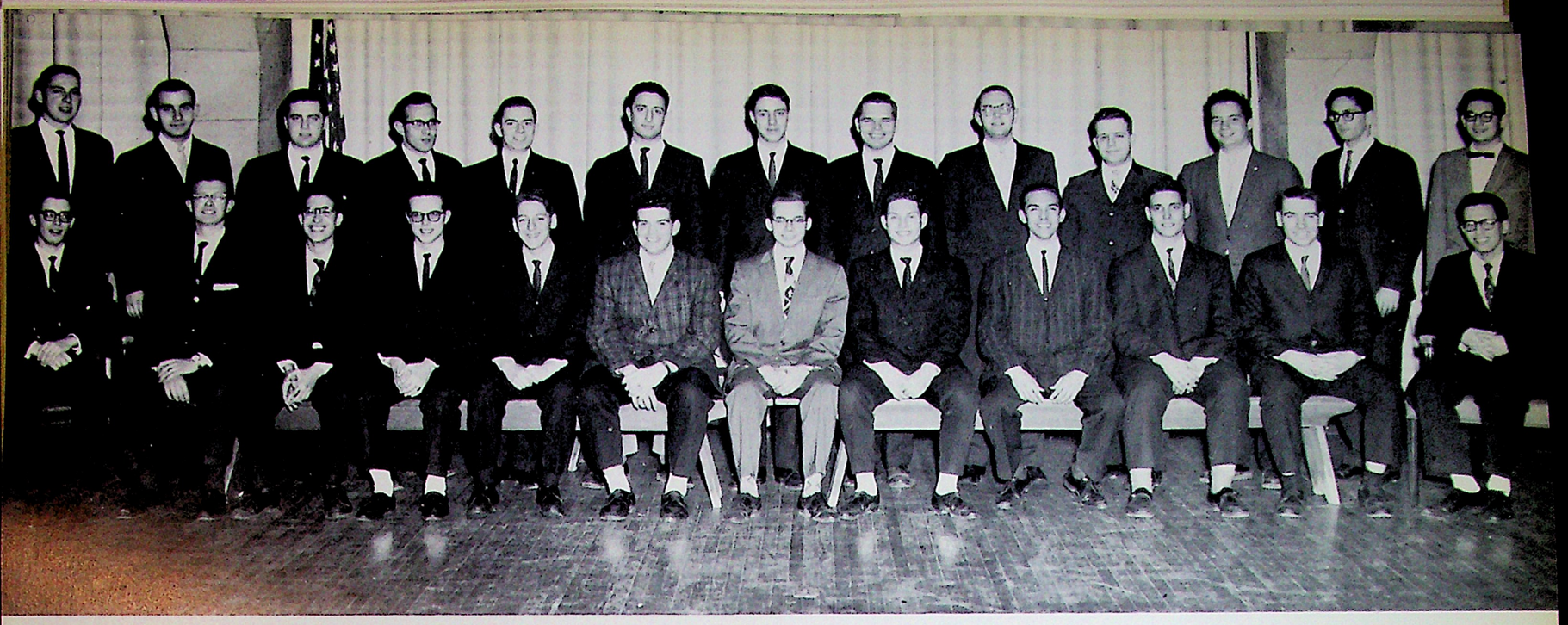
Top Row (Left to Right) – Mike Cohn, Sam Feldman, Steve Oshen, Steve Cinnamon, Artie Parente, Chester Miller, Mike Weissman, Stan Birnbaum, Jon Ellenbogen, Murray Millander, Bob Greenberg, Shelly Glickler, Morty Blatt. Middle Row: Harvey Liss, Jerry Feder, Rick Bodow, Eddie Molishever, Stu Lerner, Bernie Heilweil, Al Levine, Steve Breitkopf, Don Eisenberg, Joel Blank, Dave Kleinman, Marshall Rafal, Bob Alperstein, Mike Gage. Bottom Row: Steven Koestenblatt, Daniel Pittinsky, Gil Bank, Peter Mackauf, William Calvin, Jay Lassman, Richard Rand. Gerald Dubin, Michael Ackerman, Ben Gross, Jimmy Chan, Marvin Greene. Camera Shy: Pete Fiorentino, Mike Lindheimer, Charles Maslow, Pledges: Alan Markowitz, Gene Soltero.

Alpha Mu Sigma

After having set a new record last year of being dispossessed twice in six months, we are now essentially completed with the developmental program in our new home. It is now possible to devote ourselves to the enjoyment of our home and to the greater activities of our fraternity.

We hope that our attempts to ease the pains of our student life have been successful.

Prior:	Alfred Levine
Vice-Prior:	Joel Blank
Treasurer:	David Kleinman
Pledgemaster:	Stephen Breitkopf
Corresponding Scribe:	Arthur Parente
Recording Scribe:	Michael Weissman
Faculty Advisor:	Prof. Weller B. Embler



Top Row (Left to Right) – Mike Samuels, Matty Gross, Jerry Fleischman, Irv Haber, Steve Braunstein, Ali Mukamal, Warren Hoffman, Ira Pierce, Gary Grulick, Abe Brot, Fred Litt, Ben Eisenberg, Max Spindler. Bottom Row: Al Weinstein, Richard Rosenson, Joel Tendler, Charles Feltman, Stan Piller, Aaron Serwetman, Ray Burk, Jack Eichenbaum, Paul Zimmerman, Gordon Swartzman, Scott Maynard, Sol Peltz. Camera Shy: Henry Sullivan, Louis Dick, Edward Albano, Dave Auslander, Bruce Knauer, Bob Ennis, Gerry Klauser, Joel Fisher, Arthur Kramer.

Alpha Phi Omega

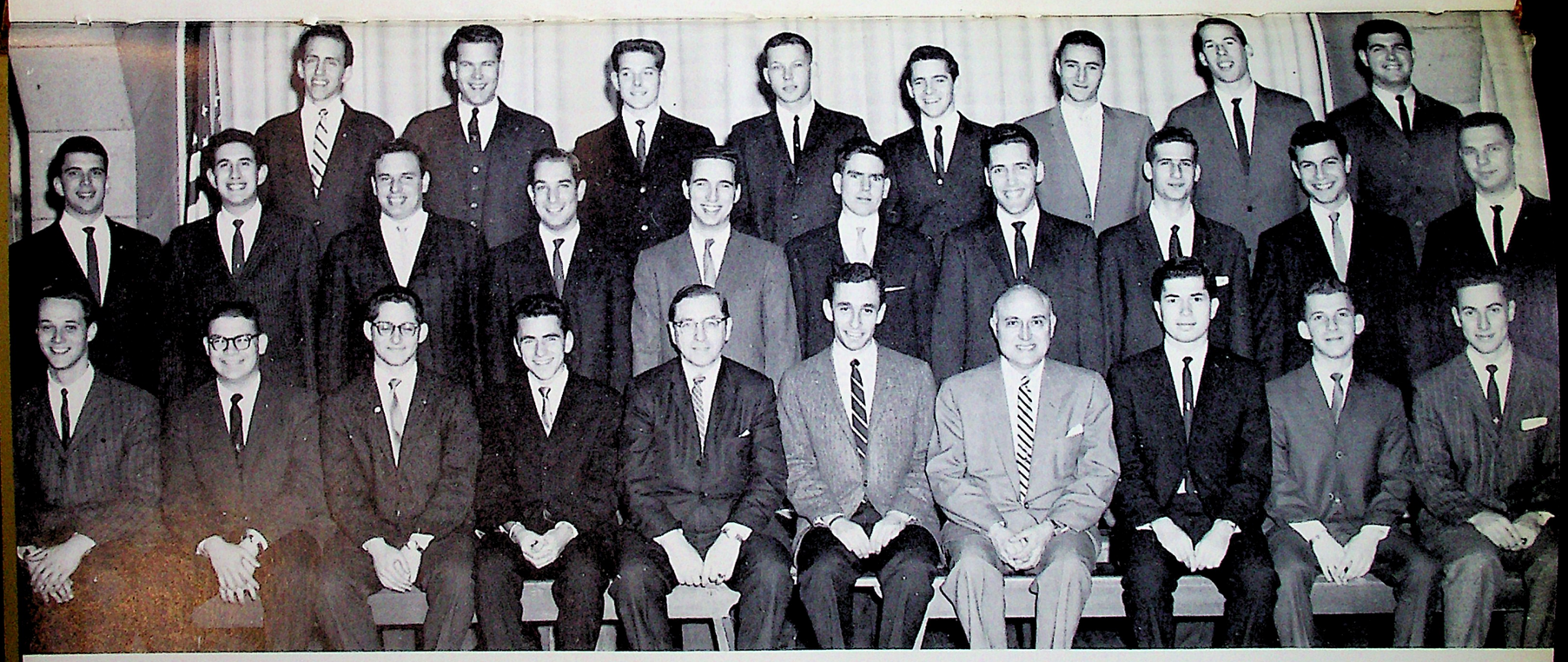
The Kappa Omega Chapter of Alpha Phi Omega is an organization devoted to providing its brothers with a fully rounded and stimulating social, athletic, scholastic and service program expressly for the purpose of perpetuating lifelong friendships and experiences.

Our parent organization, Alpha Phi Omega, encompasses over 300 chapters throughout the world, founded on the principle of developing leadership and social programs and promoting a service program to the student body, faculty, community, fraternity and nation.

Kappa Omega maintains meeting rooms at 38 E. 3rd St.

Professor Milton Stecher and Mr. Herman London are co-Faculty Advisors.

President:	Warren S. Hoffman
First Vice President:	Ali Mukamal
Second Vice President:	Edward Albano
Treasurer:	I. Nelson Pierce
Recording Secretary:	Bruce Knauer
Corresponding Secretary:	Gary Grulick
Alumni Secretary:	Benjamin Eisenberg
Historian:	Gerry Klauser



Top Row (Left to Right) – Dennis Padron, Jerry Fliegenspan, Leon Baboff, Dave Rubin, Harry Jaeger, Sol Gorland, Phil Singer, Roger Perry. Middle Row: Marv Forman, Dave Davis, Art Jacobson, Jerry Green, Ivan Stern, Howie Epstein, Jason Fane, Ricky Simon, Barry Bunin, Al Levy. Bottom Row: Al Katcher, Larry Seidman, Al Howard, Jerry Lederman, Professor Roemmele, Bill Schrank, Professor Vopat, Mike Borkowsky, Bernie Baratz, Herm Natanblut.

Lambda Sigma Kappa

In the 1960-61 academic year Lambda Sigma Kappa, with the institution of the "traditional" Alumni Reunion, Parents' Night, Open House, Fraternity Alma Mater Song, trip to Philadelphia and the LSK-Cooper Union Christmas Tree, increased its prominence in Cooper Union activities.

Almost every schoolwide student activity could boast of one or more LSK brothers among its administrators.

The brothers of Lambda Sigma Kappa, the largest fraternity on campus, are proud of their affiliation with the Cooper Union and the fraternity which has enriched their college life, and wish to congratulate the graduating class of 1961.

Ruler:	William E. Schrank
Vice-Ruler:	Michael Borkowsky
Treasurer:	Jerome M. Lederman
Corresponding Secretary:	Alan L. Howard
Recording Secretary:	Philip C. Singer
Faculty Advisor:	Prof. William A. Vopat Prof. Herbert F. Roemmele

Top Row (Left to Right) — Ivan Bottlik, Frederick Rupp, Jerry Mulyk, Bill Sandholm, Douglas Fox, Robert Abbato, Vincent Grillo, Gerd Printz, Frederick Salcedo. Middle Row: Richard Lodwig, Victor Yesavage, Anthony Blazej, Jerry Berglund, Al Kainer, Vito DiFranco, Andrew Poggio, Ronald Csuha, Valentine Povinelli. Front Row: Peter Anagnostos, William Bitterli, Joseph Dobrowolski, Harry Armen, John Thompsen, Charles Bolthrunis, Henry Weidemann, Jack Appel, Larry Oswald.

Omega Delta Phi

The Delta Chapter of Omega Delta Phi occupies quarters at 58 East Seventh Street. Since the fraternity was founded in 1903, its purpose "... to perpetuate friendships made while students and to encourage and stimulate the love and esteem of the Alma Mater . . ." has been the guide for all activities.

President:	John Thompsen
Vice-President:	Charles Bolthrunis
Secretary:	Henry Weidemann
Treasurer:	Joseph Dobrowolski
Faculty Advisor:	Dean Norman L. Towle

Top Row: (Left to Right) — Barry Rosenbaum, Larry Slavin, Richie Sussman, Rod Sorkin, Bob Silberzweig, Stuie Litt, Bob Grossbach. Middle Row: Murray Sharkey, Bernie Nathan, Joe Seinberg, Ed Ott, Len Schneidt, Ivan Sandler, George Parrino, Jerry Schwartz, Barry Schectman. Bottom Row: Chuck Fraust, Alan Brandt, Charley Schwartz, Larry Kaplan, Ira Whitman, Mike Hass, Al Kaufman, Mike Jacobs. Camera Shy: Ken Schoenberg, Joel Greenstein, Hal Brown.

Sigma Kappa Tau

Dedicated to having fun despite the tremendous obstacle of professional attitude, the brothers of Sigma Kappa Tau have infinitely outdone themselves this year.

The task of fixing up the new fraternity house proved to be an exciting summertime diversion, especially in the search for decorative objects such as those of the N.Y.C. Department of Traffic. Special Election Day and McSorley Day celebrations supplemented unusually successful parties, both drag and stag. The annual trip to the hills of New Jersey helped form closer brother-pledge relationships; particularly during the gridiron classic in which the mighty brothers once again were overwhelmingly victorious.

The brothers of Sigma Kappa Tau are proud to have been part of the fraternity during this most successful year. The fraternity extends its congratulations and good wishes to its departing brothers and their classmates.

President:	Ira Whitman
Vice-President:	Charles Schwartz
Pledgemaster:	Michael Haas
Treasurer:	Al Kaufman
Recording Secretary:	Michael Jacobs
Corresponding Secretary:	Murray Sharkey
Faculty Advisor:	Prof. Caldiero

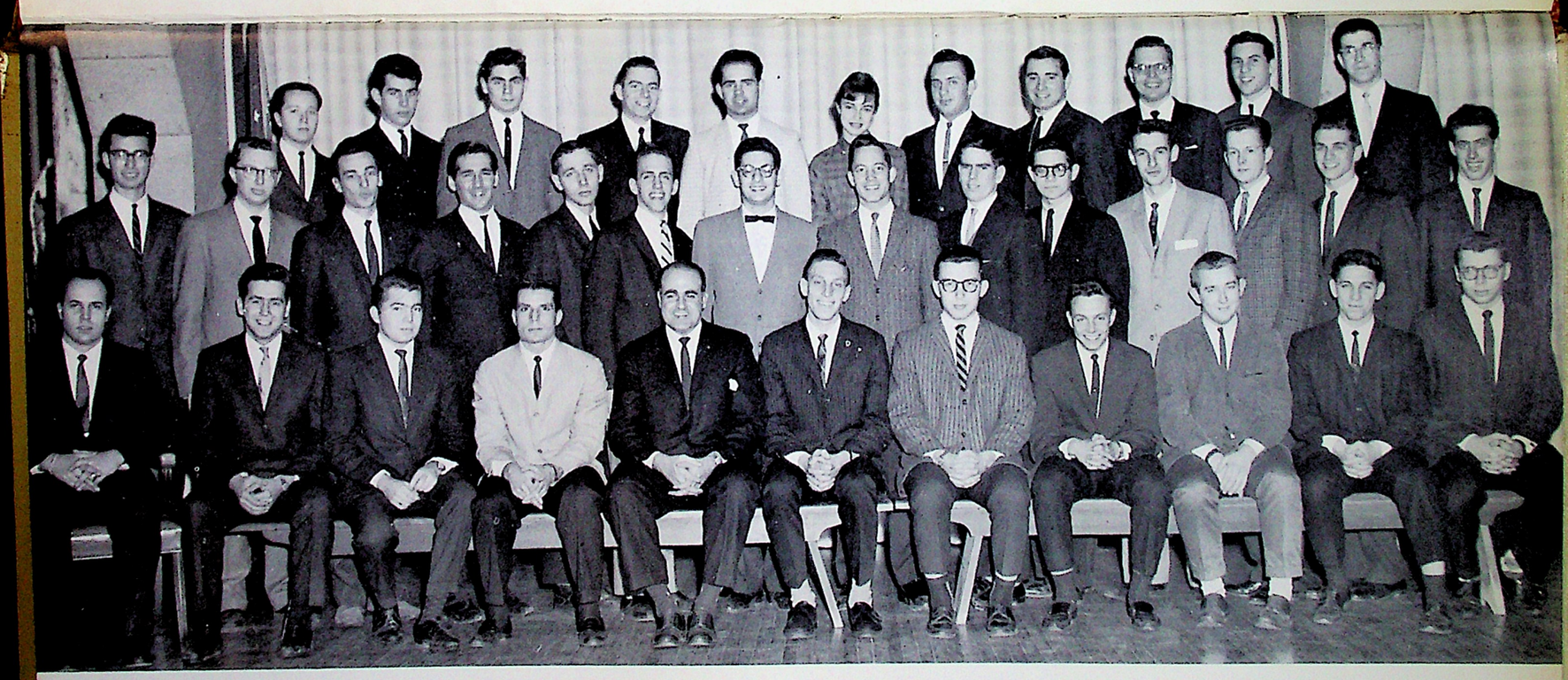
Top Row (Left to Right) — Warren Hoffman, Ali Mukamal, Fred Litt, Ben Eisenberg, Charlie Bolthrunis, Matt Gross, Henry Sullivan. Bernie Baratz. Bottom Row: Marty Winn, Elihu Turetsky, Jack Berger, Mike Samuels, Aaron Serwetman. Camera Shy: John Soma, Robert Woods, Bob Hoch, Louie Dick, Steve Mendelson, Melvin Wasserman, Brice Davis, Eddie Ashare, Larry Lewis, George Moehringer, Terence McGovern, Paul Rosche, Joel Fischer, Richard Fass, William Calvia, Erich Bohdel, Martin Wagner, R. Johnson, I. Kay, Mark Newberger, Neil Frankel, Anthony Blazej, Bruce Knauer, Raymond Jesaitis.

American Institute Of Chemical Engineers

The Student Chapters of the American Institute of Chemical Engineers have the objectives of promoting the professional development of their members and contributing to the development of chemical engineering. These objectives are achieved by their activities which involve the faculty, student chapter members and the parent body.

For the chemical engineering student, membership in the Student Chapter helps him to become familiar with the various phases of the Chemical Engineering field. The Chapter shows technical films, invites guest speakers, participates in an annual convention, organizes AIChE plant trips, and publishes its own magazine, The Filter Press.

President:	Jack Berger
Vice President:	Mike Samuels
Secretary:	Joel Fisher
Treasurer:	Elihu Turetsky
Faculty Advisor:	Prof. Robert L. Steinberger



Top Row: (Left to Right) — Harvey Liss, Gary Morgerman, Jerry Dubin, Steve Braunstein, Fred Salcedo, Sue Huppert, Vincent Grillo, Bob Alperstein, Ira Pierce, Mike Jacobs, Dennis Rader. Middle Row: Lenny Schneidt, John Frank, Charles Schwartz, Murray Sharkey, Bob Silberzweig, Dennis Padron, Max Spindler, Bill Sandholm, Howie Epstein, Richard Rand, Ron Murro, Bob Sullivan, Joe Dobrowolski, Joe Seinberg. Bottom Row: Pete Zindulka, Harry Armen, Pete Anagnostos, Herman Braude, Professor Nuccitelli, Ira Whitman, Mayer Horn, Chuck Fraust, Doug Fox, Al Brandt, Clive Dym. Camera Shy: Joel Lubenau, Sam Blumert, George Duckett, Robert Corvini, Harold Brown, Ronald Drucker, Vytas Svalbonus, Dave Fialkoff, Ed Baker, Gene Golub, Joe Hellman, Dave Rubin, Jason Fane, Miroslav Kolpak, Chas. Maslow, William Rowe, Phil Singer, Gary Mailman, Larry Kaplan, Art Ashendorf.

American Society of Civil Engineers

The primary aim of the Cooper Union Student Chapter of the American Society of Civil Engineers is to develop in the student a sincere interest in his chosen profession. This purpose is realized by numerous meetings and field trips which are designed to keep the student informed of up-to-date techniques. The dissemination of non-curricular knowledge is accomplished by inviting practicing engineers to address the chapter. Field trips enable the student to acquire first-hand information and provide an opportunity to observe the results of design. The Cooper chapter is aware that engineering is a cooperative venture and, by means of "getting together," affords its members the chance to exchange ideas and form lasting friendships which are invaluable to the self-development of the individual.

President:	Robert Alperstein
Vice-President:	Michael Jacobs
Co-Secretary:	David Rubin Kenneth Afferton
Treasurer:	Harvey Liss

Bottom Row: (Left to Right) – Al Levine, Herman Natanblut, Stuart Lerner, Bernie Heilweil, Mike Rolund, Irv Haber. Top Row: Jerry Fleischman, Larry Seidman, Rodney Sorkin, Al Karcher, Pat Peruo, Gordon Swarzman, Jerry Fleigenspan. Camera Shy: Ed Gruberg, Dave Schnee, Robert Wolfe, Gilbert Starr, Ivan Stern, Emile Tobenfeld, Dave Davis, Rudolph Drechsler, Robert Grossbach, Stuart Litt, Dave Trutt, Fred Rupp, Fred Stern, Andrew Poggio, Gerd Printz, Al Kaufman, Steve Dobrow, Phil Avruch, Marv Forman, Dave Kleinman.

American Institute of Electrical Engineers
Institute of Radio Engineers

The fundamental purpose of the AIEE-IRE student branch is to introduce students to the parent national societies and to acquaint them with the many benefits which can be derived from membership in these societies.

The student branch also functions to advance the professional interests of the engineering student.

A variety of activities are regularly planned ranging from discussion of summer experiences to talks and demonstrations by outside speakers. These meetings serve to introduce the prospective electrical engineer to his profession so that he may more fully understand what he might expect and what will be expected of him after graduation.

Chairman: Stuart Lerner
Vice-Chairman: Bernard Heilweil
Treasurer: Herman Natanblut
IRE Secretary: Michael Rolund
AIEE Secretary: Edward Gruberg
IRE Faculty Advisor Prof. Sherman
AIEE Counselor: Prof. Epstein

The Cooper Union Alumni Association

THE ALUMNI ASSOCIATION OF THE COOPER UNION FOR THE ADVANCEMENT OF SCIENCE AND
GANO DUNN MEDAL
FOR PROFESSIONAL
ACHIEVEMENT

The alumni of a college constitute one of its unique resources. Cooper Union's alumni consider it a privilege to serve their own distinguished Alma Mater. Organized in the Cooper Union Alumni Association, nearly three thousand members — the largest membership in its history and constantly growing — support and participate in a program of activities that provide pleasure and stimulation for fellow alumni of both the School of Art and Architecture and the School of Engineering. This program also fosters and maintains the Alma Mater's spirit among all alumni. It has as its major purpose the perpetuation of the ideals of our common benefactor, Peter Cooper, and the preservation of the legacy he bequeathed to us for future generations of students.

The program of the Association is a dynamic one which helps the school while it benefits the alumni. It includes interesting meetings which feature outstanding speakers on scientific and sociological topics of current significance . . . an educational program consisting of our highly reputed Professional Engineer's Review Course, the Summer Seminar at Green Camp, and the recent course in computer technology . . . a weekly sketch class and the Peter Cooper Gallery for exhibiting the work of our artist members . . . publication of the Alumni News and the gala Founder's Day Yearbook issue . . . the annual Alumni Day, with class reunions and fun for the entire family, at Green Camp in September . . . the Founder's Day Dinner and Dance in February, when we pay tribute to Peter Cooper and honor our distinguished fellow alumni by the presentation of Citations and the Gano Dunn Medal . . . encouragement of undergraduates by financing extra-curricular activities and awarding prizes for academic excellence. And if you leave the New York City area after graduation, there are chapters of the Alumni Association organized in many cities.

We extend to all the members of the Class of 1961 a warm invitation to visit our new headquarters in the Hewitt Building, to enjoy our attractive and comfortable lounge and other facilities. Now that we have this new home, there are many more things we would like to do, things that perhaps you yourself would like to see done. For these we look to you, our newest members, for participation and support.

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The Significance of Education

Each entering student at Cooper Union undoubtedly has very clear goals which he expects to realize. From a point in time more than forty years after my matriculation, I must confess that my most significant acquisitions were far different from my earlier expectations. Somewhere along the line I was inculcated with the certainty of "change" in all things and the desirability of slow rather than abrupt change. I can still hear Professor Hartman enunciating what to me was a fundamental law of life . . . "In nature there are no finite discontinuities." Small wonder then that I should now hold high the thought for our company action and research, "Perfecting not perfection is our goal."

Thomas F. Peterson, EE, 1923

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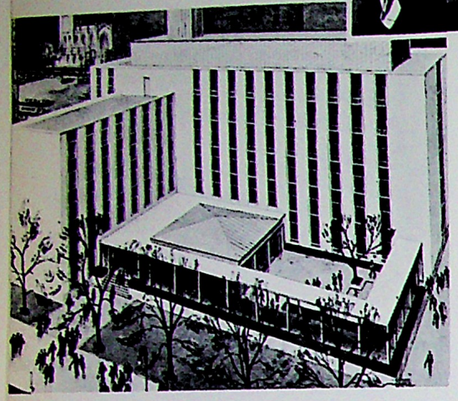
Participating in the cornerstone laying were (l to r) Mayor Robert F. Wagner of New York; former president Herbert Hoover; Charles A. Selby, president of Vermilya-Brown Company, the general contractor; Benjamin Lane Smith, a partner in Voorhees Walker Smith Smith & Haines, the architects; Dr. Edwin S. Burdell, president of The Cooper Union.



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One of the most important moments in the history of The Cooper Union was the cornerstone laying ceremony for the new Engineering Building which was held September 17, 1959 — exactly 106 years from the time that Peter Cooper laid the cornerstone of the first building of the free-education institution he founded. Students and faculty naturally are proud that they are part of the school as the first addition to the plant in fifty years is being built. We—Vermilya-Brown Company—are proud that we were selected as the general contractor for this historic expansion. By a coicidence, we too are in our 106th year! We wish for every engineering student the same measure of success and honors that have won world wide respect for The Cooper Union.

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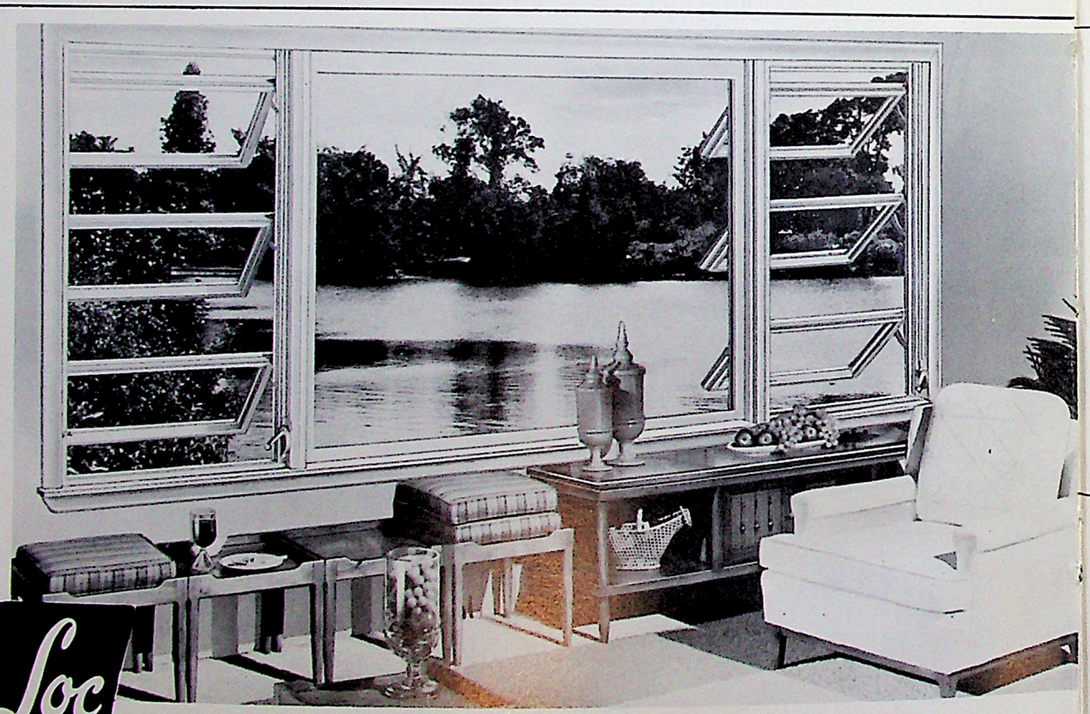

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